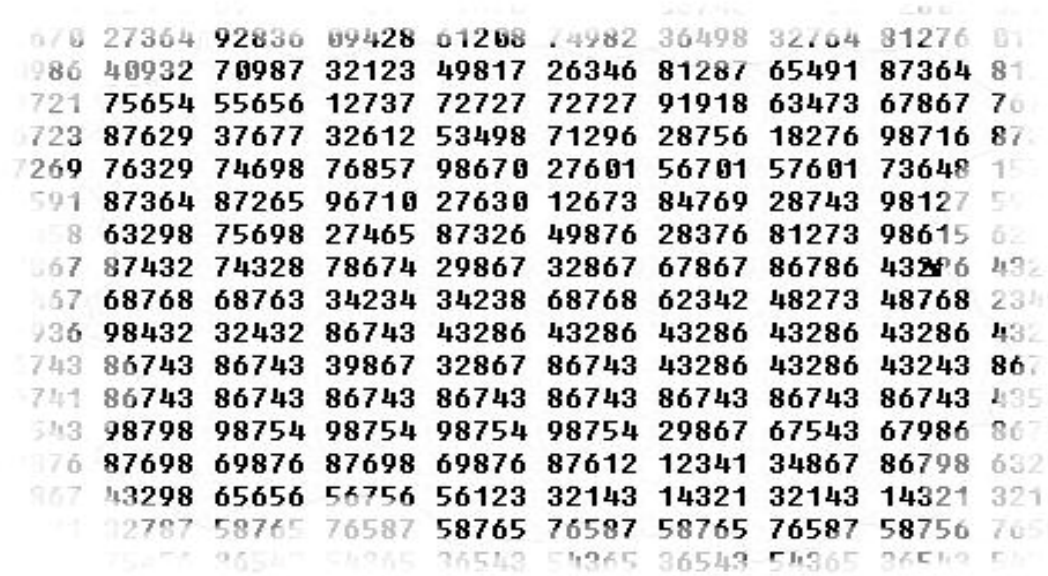

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #164, May 2011

Editor: Ary Boender email: ary@luna.nl

Check for previous newsletters, info, sound samples and databases also:

NUMBERS & ODDITIES	**http://www.ary.luna.nl**
	http://www.numbersoddities.nl
SPY NUMBERS ONLINE DATABASE	**http://www.spynumbers.com/numbersDB**
UTILITY DXERS FORUM (UDXF)	**http://www.udxf.nl**

Welcome to yet another edition of Numbers & Oddities.

I have some rally nice stuff for you this month. A new Chinese station was reported by Brandon; two new frequencies for S32 were found by Lars and Danix (who was VERY active this month); many Chinese Robot logs; messages from S30 and S32; and finally Gary found an unid Asian net that needs to be identified.

I hope you will enjoy N&O and keep the logs coming !!!

VOICE STATIONS

E06

8099 kHz, 0030 UTC, 08-05. Copied by Danix.

759
162 34
71500 20520 82001 17642 93569
69662 96601 09589 20591 04004
78451 39374 21310 12171 70171
92529 60569 79291 76964 67908
71765 43018 15494 65785 16115
83637 33158 28015 02186 15443
33723 09926 64108 71566
162 34
00000

8099 kHz, 0030 UTC, 15-05. Copied by Danix.

759
841 30
96935 77466 82687 61402 41883
23069 69245 57907 97969 46221
73089 90120 86784 43013 90474
93290 29472 18662 19920 97201
35867 01909 77953 23630 85517
18886 12216 70607 42793 37405
841 30
00000

E07

E07a was copied by Danix and Ben:
8173 kHz, 2000 UTC, 11-05
7473 kHz, 0530 UTC, 12-05

147 147 147 1 17763
452 53 452 53
03203 02528 83529 32561 45314
14643 36366 12465 91702 04613
72797 06483 45976 15075 77773
43774 95479 82735 02440 26622
93127 22696 10469 03350 12888
46114 57920 07799 65296 68349
92444 01987 19317 77082 12391
81690 59226 44735 64943 48064
90688 67150 10830 39016 72027
18677 00375 93405 60198 22291
81837 30776 35274
000 000

8173 kHz, 2000 kHz, 18-05 (Danix)

147 147 147 1 60401
970 59 970 59
09581 81106 02163 56473 27400
14325 38602 68170 80453 26356
38067 92368 61700 21361 09880
94188 86583 10901 67525 24040
00320 13479 36453 93565 85929
17547 28036 68418 21543 09770
88357 74748 81099 32529 94489
69970 90664 22990 19668 40902
76970 32320 42060 14607 61873
42620 10661 13421 41535 12197
40855 43629 72376 88826 43963
18997 33840 12633 01244
000 000

E11

4909 kHz, 1445 UTC, 07-05. Copied bij Danix

280/35
Attention
36766 84922 45623 54433 90244 44167 50390 91589 65038 02531
90639 62514 69029 64472 73450 15727 53503 52537 87569 76268
80646 05128 48751 90780 04187 49116 53628 34826 07606 05547
51564 48892 01736 31596 20801
Out

G06

5943 kHz, 27-05, 1930 UTC (Danix)

218 393 15
45637 28390 84523 41235 67543 64873 08746 56473 29171 54173
54673 78923 23451 47392 65478
393 15
00000

G11

5815 kHz, 1755 UTC, 17-05 (Danix)
Note: No "null" ending on G11 since May 17.

272/31
16200 86452 15535 54079 26338
28738 99671 74183 41969 09286
63921 12368 72774 63123 99626
56822 08098 94850 12894 79613
02708 57029 82695 64869 10299
54820 74390 22155 07417 16222
56042

3815 kHz, 2000 UTC, 20-05 (Danix)

260/33
83314 20563 85556 17296 53253
64619 59841 59563 22899 24530
91488 29017 59580 14793 53796
62026 94040 58312 73459 45103
93955 23152 58053 71017 64926
17005 26537 73652 43683 58071
36458 12006 41560

5815 kHz, 1325 UTC, 20-05 (Danix)

293/34
61340 09699 51343 74616 27796
97046 15654 17189 16109 61276
83021 82830 83557 87095 09984
02134 56282 88315 64011 85045
17997 34390 85527 21197 64386
57915 41829 35074 65029 48005
33582 56693 84772 35944

S06

Danix heard S06 on 7982 kHz at 1900 UTC, 12-05:

349
628 17
82545 53937 64917 94307 07595 73141 51513 31066 39829 90238
82639 63588 09422 26018 80440 15831 91256
628 17
00000

S11a

5815 kHz, 1020 UTC, 21-05 (Danix)

228/35
41277 30693 21792 30610 28691 48923 70311 60545 09925 20320
38646 87718 78296 30714 58825 43517 66355 15450 51350 42146
09027 05308 58939 54418 99890 75456 99387 67259 35191 33015
30921 61443 64908 04952 45057

S28 - The Buzzer (UVB-76 / MDZhB)

Rimantas sent me two notes. First a correction to N&O 163, page 4, the list of equipment: the transmitter name should be PKM-20 instead of PTP-20.

On November 11, 2010 around 1400 UTC a 30 minutes long phone conversation was transmitted on 4625 kHz. I mentioned this in the November issue. Rimantas forwarded an interesting part of the transmission. You can find the recording on the N&O website.

"Здравия желаю! Дежурный по узлу связи "Дебют" старший прапорщик Успенская. С узла связи "Надежда" от дежурного по связи получен контрольный звонок".

"I wish you a health! [Russian military greeting] I am a person on duty at the communications nod "Debiut" [Debut], senior praporshchik [the ensign] Uspenskaya [female family name]. From the communications person on duty of the communications nod "Nadezhda" [Hope] a control phone call has been received".

05-05	2010	MDZhB MDZhB 85 144 DROChENA 67 96 32 99	
11-05	1256	Male voice. MDZhB MDZhB 66 319 Glotiha 64 29 47 76	*)
11-05	1304	Male voice. MDZhB MDZhB 35 990 Iloticin 36 19 69 46	*)
11-05	1403	Male voice. MDZhB MDZhB 22 806 Klorapatit 80 80 29 83	*)
12-05	1330	Male voice. MDZhB MDZhB 16 559 Glokt 65 83 69 34	*)
13-05	1340	Male voice. MDZhB MDZhB 00760 Klovir 67 36 65 89	*)
17-05	1328	Male voice. MDZhB MDZhB 93 013 Alkeran 27 56 14 43	*)
19-05	1449	Male voice. MDZhB MDZhB 19 086 Plintusnyj 17 90 66 50	*)

*) recording on the N&O website.

S30 – The Pip

Active on its usual day (5448 kHz) and night (3756 kHz) frequencies throughout the month.

Danix copied the end of a voice transmission on 3756 kHz, 1809 UTC, 04-05. He heard only the end of the message was copied "kak slyshno, priyom" (how do you copy, over)

Another message was heard by Danix on 11 May at 1800 UTC: "Dlya VTH3 AGDT U1B OSOG BO6C F56Shch 9GSA ZhBZU 4RVZ 3VS. Kak slyshno, kak slyshno, priyom".

The audio file:
http://priyom.org/media/15198/s30-3756usb-20110511-1800z-msg-bydanix.ogg

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S32 – Squeaky Wheel

Active on its usual day (5473.9 kHz) and night (3828.9 kHz) frequencies throughout the month.

S32 has also been heard on two alternate frequencies; 5436 kHz on 8 May and on 3791 kHz on 18 May. Copied by resp. Danix and Lars.

Lars' recording:
http://www.priyom.org/number-stations/new-stations.aspx

Danix forwarded a S32 message that he found on irc.mibbit.net/#uvb-76 posted by Avare.

Heard on May 16th at 1510 UTC on 5473 kHz.

Transcript: "Alfa-45, Alfa-45, 71 617 PUShEChNYJ 16 38 95 55"

Recording: http://priyom.org/media/15721/s32-5473usb-20110516-1610-msg-byavare.ogg

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V13 – New Star Broadcasting Station

星星廣播電台 **Xīngxīng guǎngbò diàntái**

Frequency since 1 April: 9725 kHz
Schedules at 0500, 0600, 1200, 1300 UTC.

V24

V24 and M94 changes, May 03, 2011
Report by T!, Mojave Desert, California, USA

Hello all,

Most transmissions seem to have changed. And some frequency / time combinations have new music, possibly indicating that although the frequency and time are the same the recipient might be different.

While I can not yet confirm all frequencies (only 4600, 5715, 6215, and 6330 have been used so far this month that I have been able to receive) I can for sure say V24 / M94 has moved outside the 1200 to 1630 time frame it has used for years.

This morning (3 May) there were transmissions at 1100 (6215 kHz), 1120 (5715 kHz), and 1140 UTC (6215 kHz) in addition to transmissions inside the 1200 to 1630 time frame. Nine transmissions total in one day, all V24, from 1100 to 1500 UTC, I have never seen V24 / M94 send that many in one day before. And I did not start looking until 1100 UTC, so there could have been transmissions earlier. Because of this I can say only a few things about V24 / M94 at this time, and most of them are statements of what I don't know, vs what I do.

V24 / M94 has shifted to using time slots outside the traditional (for them) 1200 to 1630 UTC window. Exactly what these time changes are is unknown at this time, but includes multiple transmissions before 1200 UTC. I have not been able to confirm any transmissions after 1630 UTC, but because of propagation I may not be able to confirm them even if they are happening. The transmission times seem heavily weighted to earlier, instead of later. Most of the transmissions for the last few days appear to be before 1400 UTC. It is possible this weighting of times is caused by my propagation conditions and I might be missing latter transmissions.

V24 has started using time slots ending in 20 and 40 (such as 1120 and 1140), something it has not done in the past several years, and possibly has never done. Time slots ending in 00 and 30 (such as 1300 and 1330) are still being used but so far the 30 time slot has not been seen in combination with a preceding 20 or a following 40 time slot.

Since May 1 no M94 transmissions have been noted, in the same time frame last month there were two. The two M94 time slots and frequencies that should have happened did have trans-

missions, but they were V24 instead of M94. However, this happened January 1, 2011 also, and eventually M94 fell back into its old time slots.

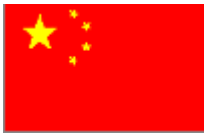
It is simply going to take some time to figure out the details of all of these changes. In the mean time look for V24 / M94 on all of its old frequencies and in any time slot from at least as early as 1100 and as late as 1630 (and maybe outside of these times as well).

T! added the following comments on the 17th

5715	**V24 Mon**	**05162011 1000**	**AM 5f, new music, new time slot, 1st report of reception this time slot**
5715	**V24 Mon**	**05162011 1100**	**AM 5f, new time slot, 1st report of reception this time slot**
6730	**V24 Mon**	**05162011 1430**	**AM 5f**

Note the new time slots for V24. In the past three weeks new time slots of 1000, 1100, 1120, 1140, and 1220 have all been heard. Prior to this V24 had never been seen before 1200 UTC that I know of.

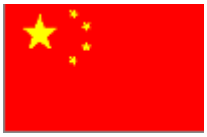
The new time slots before 1200 raise the likely hood of people in the eastern parts of the USA of hearing this station, but will not help European listeners in the least. No new times past 1630 have yet been noted, however at this time of year my propagation is very poor to the region from 1500 on. If new time slots do exist after 1630 this would greatly help European listeners.



V26

Both V26 and its morse sister M95 were active this month. Good to see that they are still alive.

9153 kHz, 0921 UTC, 08-05
4243 kHz, 1205 UTC, 15-05
4243 kHz, 1155 UTC, 16-05
4243 kHz, 1201 UTC, 22-05
4243 kHz, 1201 UTC, 23-05
7553 kHz, 1332 UTC, 28-05
9153 kHz, 1332 UTC, 28-05



VC01 – Chinese Robot

Mode: USB on 4 MHz and LSB on 7 MHz.

The first UDXF log of the Chinese Robot was on 27-3-2000. We found the station since that date on the following frequencies: 3036, 3837, 4410, 4427, 4480, 4530, 5288, 5303, 5700, 6479, 6771, 6840, 6855, 6860, 6960, 7090, 7608, 7684, 7726, 7744, 7756, 7770, 7880, 7924, 8000, 8025, 9169, 9290, 9340, 10508 kHz.

VC01 Logs:

4410 kHz, 01-05, 1446 UTC
4410 kHz, 01-05,1929 UTC
4410 kHz, 02-05, 1534 UTC
4410 kHz, 03-05, 2014 UTC
4410 kHz, 04-05, 2129 UTC
4530 kHz, 07-05, 2309 UTC
4530 kHz, 09-05, 1630, 1750, 2014 UTC
4530 kHz, 10-05, 1852, 2050 UTC
4530 kHz, 12-05, 1230, 1635 UTC
7684 kHz, 12-05, 1230 UTC
7744 kHz, 13-05, 0517 UTC
4530 kHz, 13-05, 1618, 2124 UTC
7744 kHz, 14-05, 0506, 0603, 1045, 2248 UTC
4530 kHz, 14-05, 1045, 1633 UTC
7684 kHz, 14-05, 1100 UTC
7744 kHz, 15-05, 0617 UTC
4530 kHz, 15-05, 1130, 1940 UTC
7744 kHz, 16-05, 0517 UTC
4530 kHz, 16-05, 2037 UTC
7684 kHz, 16-05, 2037 UTC
7744 kHz, 17-05, 0532 UTC
4530 kHz, 17-05, 1645 UTC
7684 kHz, 17-05, 1645 UTC
7744 kHz, 18-05, 0612 UTC
7744 kHz, 19-05, 0604 UTC
7684 kHz, 19-05, 1700 UTC
4530 kHz, 19-05, 1700 UTC
4530 kHz, 20-05, 1545, 2038 UTC
7744 kHz, 21-05, 0543 UTC
7684 kHz, 21-05, 1423, 1835 UTC
4530 kHz, 21-05, 1423, 1835 UTC
7744 kHz, 22-05, 0707, 0927 UTC
4530 kHz, 22-05, 0927, 2101 UTC
7744 kHz, 23-05, 0556 UTC
7684 kHz, 23-05, 1327 UTC
4530 kHz, 23-05, 1327, 2115 UTC
7744 kHz, 24-05, 0547 UTC
4530 kHz, 24-05, 1711 UTC
7744 kHz, 25-05, 0529 UTC
4530 kHz, 25-05, 1744 UTC
7744 kHz, 26-05, 0605 UTC
4530 kHz, 26-05, 1838 UTC
7744 kHz, 27-05, 0528 UTC
7684 kHz, 27-05, 1629 UTC
4530 kHz, 27-05, 1629, 2128 UTC
7744 kHz, 28-05, 0558 UTC
7684 kHz, 28-05, 1619 UTC
4530 kHz, 28-05, 1620, 1837 UTC
7744 kHz, 29-05, 0937, 1056 UTC
4530 kHz, 29-05, 1058 UTC
7684 kHz, 29-05, 1112, 1500 UTC
7744 kHz, 30-05, 1512 UTC
4530 kHz, 30-05, 1247 UTC
7744 kHz, 31-05, 0603 UTC
7684 kHz, 31-05, 1607 UTC
4530 kHz, 31-05, 1607, 2115 UTC

VC04

VC04 is a new N&O designator for a numbers station in the Chinese language. Possibly military. The station transmits 4FGs messages. If anyone has more information about the station's identity, please let us know!!!

Check Brandon's recordings on the N&O website. DJ was so kind to translate the recordings for me. Thanks for your help.

This station/net was first reported by Brandon. He monitored this station on:
8189 kHz, 1018 UTC, 06-03-2011
7821 kHz, 1322 UTC, 27-04-2011
8263 kHz, 27-04-2011
11186 kHz, 0950 UTC, 28-04-2011
8043 kHz, 1036 UTC, 19-05-2011

Here are the transcripts:

Recording: VC04_20110306_101618z_8189khz.mp3

… 3580 0563 0117 5068 0836 3664 148 148 044
NOTE: '148 148' near end may just be '148' repeated like the 4-fig groups.

Recording: VC04_20110427_132224Z_7821kHz.mp3

…. 2715 1400 2334 5687 0397 6063 (repeats)
2590 1129 0039 3275 0354 6600 2533 1141
616 8416 5123 3051 1233 0397 7468 2087 6999 6565 2213 0021 9352 9056 0473 0008
6489 3033 3718 (last group spoken very quickly, as if not part of message)
14 9099 1467 2170 2170 (2170 spoken 3x) 6563 0033 0305 0500 0935 0560 4092
6183 4885 9919 2933 7115 3952 6112 6566 7115 3952 6112 6566 1108 1193
(short pause)
0529 3700 0725 1161 8944 4411 6071 0512 1140 7900 (pause)
7123 9297 6616 7644 3932 6239 9011 549 9 0059 9974 3718 (spoken quickly)
('549 9' may be some sort of indicator or may just have been the operator
stumbling over some numbers. '14' above may be some other 2 syllables that I
just didn't get. It looks like '3718' is an end of msg indicator.)

Recording: VC04_20110519_103635z_8043khz.mp3

…. 0519 1830 34 306 27 304
3030 3533 1116 0216 0408 1706 2805 2502 1116 0706
0408 1706 6016 2401 2601 2913 0227 0303 0216 0705
0712 1909 (repeated 3x)
2709 1116 0216 0705 1511 1131 2407 0429 2423 2401
1823 2508 2402 0705 6015 3232 3030 (last 2 groups only spoken once,
so it actually be '32' (repeated) '30' (repeated))
16 2422 /end of clip/

VTN

VTN has daily transmissions on 10255 kHz USB at 1600 UTC.

Female reading "Sơn Ca gọi Hải Đăng năm hai năm ba" followed by a message. Repeated twice.

01-05, 10255 kHz USB, VTN, YL/5f/30 grps, 1559:33 UTC msg 1, 1606:59 UTC msg 2, 1615:18 msg 3
02-05, 10255 kHz USB, VTN, YL/5f/30 grps, 1559:32 UTC msg 1, 1606:58 UTC msg 2, 1615:18 msg 3
04-05, 10255 kHz USB, VTN, YL/5f/30 grps, 1559:30 UTC msg 1, 1606:56 UTC msg 2, 1615:16 msg 3
05-05, 10255 kHz USB, VTN, YL/5f/30 grps, 1559:30 UTC msg 1, 1606:57 UTC msg 2, 1615:16 msg 3
07-05, 10255 kHz USB, VTN, YL/5f/30 grps, 1559:31 UTC msg 1, 1606:55 UTC msg 2, 1615:16 msg 3
09-05, 10255 kHz USB, VTN, YL/5f/30 grps, 1559:28 UTC msg 1, 1606:54 UTC msg 2, 1615:14 msg 3
10-05, 10255 kHz USB, VTN, YL/5f/30 grps, 1559:25 UTC msg 1, 1606:51 UTC msg 2, 1615:11 msg 3
12-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:26 UTC msg 1, 1604:00 UTC msg 2, 1608:35 msg 3
15-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:24 UTC msg 1, 1603:58 UTC msg 2, 1608:33 msg 3
16-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:21 UTC msg 1, 1603:57 UTC msg 2, 1608:31 msg 3
17-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:22 UTC msg 1, 1603:56 UTC msg 2, 1608:31 msg 3
28-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:12 UTC msg 1, 1603:45 UTC msg 2, 1608:22 msg 3
29-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:11 UTC msg 1, 1603:44 UTC msg 2, 1608:21 msg 3
30-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:11 UTC msg 1, 1603:43 UTC msg 2, 1608:20 msg 3
31-05, 10255 kHz USB, VTN, OM/5f/50 grps, 1559:10 UTC msg 1, 1603:43 UTC msg 2, 1608:20 msg 3

MORSE STATIONS

MX - Russian Military beacons

Reported beacons on various cluster frequencies:

European Cluster Beacons: D, P, S, C, A
Asian Cluster Beacons: F, K, M

Other beacons:

P – 3772, 4476 kHz
R – 4325.9 kHz
V – 4150, 4392 kHz

M12

Danix and Dude copied the following M12 messages:

7931 kHz,1920 UTC,02-05.

257 257 257 1
2241 80 2241 80
28901 47593 39151 36364 17986 35814 27536 19531 72818 46851
63876 39760 26298 87052 57385 63477 75768 52686 19111 05693
56781 22693 81833 57878 86387 74724 65493 04872 62623 00223
04868 31731 69970 35136 86269 20869 03554 57956 21709 04068
93740 59023 81340 89925 86413 18357 75305 15449 88042 46551
74126 12787 08213 71666 43083 57540 39876 25510 18010 54765
80371 46454 31544 07130 65120 91263 71491 25820 73896 46804
56675 67761 24292 26951 70562 17279 79749 10402 44025 20712
000 000

6904 kHz, 1940 UTC, 09-05

257 257 257 1
2343 69 2343 69
87586 54673 34254 65051 69464 73939 13047 05537 66964 19483
11301 29081 77205 24435 86052 33206 35925 67627 25635 41*53
22953 77743 49488 73843 ***43 *2215 28925 74185 59022 49616
83225 605** 51482 80430 95526 55657 11202 912*8 59329 90973
29602 4999* 550*6 93528 45633 12788 41660 *5812 63935 80157
70950 02717 67693 83993 64852 06858 09148 81678 40292 63421
99290 91169 593*3 91169 18583 74818 80532 87916 63486
000 000

17-05, 0420 UTC, 17-05

111 111 111 1
.243 392 243
25916 43095 39910 12532 05641 69769 56398 00874 95556 88898
93056 03798 60390 28077 20407 80735 70623 50994 13368 73615
53158 07968 33159 00886 49557 46420 75117 11169 33278 31213
48921 84813 21230 52050 23668 85924 35378 65586 29993 58842
20331 92505 48476 30685 35039 98575 97070 00772 21712 62269
56233 68405 73200 87104 03787 86491 24942 72227 59945 63967
49719 95572 41880 22829 64553 39947 24759 93578 73320 48752
62519 30209 25830 28062 59975 04270 79093 87301 87562 75867
87320 56416 17041 52407 43953 97661 84938 93212 77643 43277
18813 32432 06628 26412 41982 36814 41505 38387 63238 25481
79639 09956 57740 48241 55656 28080 9*918 31141 76078 12114
80384 49123 11735 38907 50105 05528 54094 72749 66233 11898
45957 79993 00871 19674 61738 42017 32388 48984 05206 00248
51860 06103 97736 41395 36965 06946 14102 41899 75855 74093
72691 10620 22684 51734 53081 66625 08948 88680 15646 93887
79155 48291 36079 93993 03081 80409 36734 52899 97072 88508
66892 05473 39537 02052 45381 00928 93555 79186 37930 99720
84274 15151 01922 93256 66615 30856 75519 05484 00520 19839
45922 81136 01172 47749 76095 41736 74475 96062 85567 98352
17041 39011 67607 10025 95667 82888 03281 04245 92027 18004
94176 26604 36062 03027 48197 08776 49441 96711 27011 05569
60017 70233 73389 53622 00054 96905 26698 87978 48559 60946
09484 3191S 4A03* 70156 34603 81468 07739 19826 28925 79606
07372 45209 91155 73001 07252 57425 39979 93996 56312 82805
69626 74944 2934
000 000

M18

4073 kHz, 2130 UTC, 04-05: time strings. UTC+8

M21 ***Russian Air Defence Forces***
Voyska Protivo Vozdushnoy Oborony
Войска ПВО Voyska PVO

Id “0”: 3246.5, 3314 kHz
Id “9”: 9222, 10336 kHz
Id ???: 5752

M89 – Chinese military

VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k	**4860, 6840, 10640 kHz**
V MB3R MB3R MB3R DE YA6X YA6X	**5488 kHz**
V QPZM QPZM QPZM DE WOXN WOXN	**3327, 4523, 5310, 7568, 7833, 10643 kHz**
V JA3L JA3L JA3L DE UN2T UN2T	**4532 kHz**
V 7NPE 7NPE 7NPE DE QV5B QV5B	**4225, 5500, 7582, 8110 kHz**
V 7NPE 7NPE 7NPE DE CI4W CI4W	**5500, 8100 kHz**
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	**7602 kHz**
V GKVZ GKVZ GKVZ DE Q7NW Q7NW	**3297 kHz**
V 9VUP 9VUP 9VUP DE JR5U JR5U	**4592 kHz**
V RXP7 RXP7 RXP7 DE CZT2 CZT2	**10472, 11432 kHz**
V H2FL H2FL H2FL DE DRV8 DRV8	**6773, 8040 kHz**

Notes

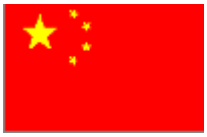
- **8110 kHz, 1204-1224 UTC, 2 May: "V 7NPE 7NPE 7NPE DE CI4W CI4W". Reverted to its usual QV5B call later on. CI4W normally calls JAH3: V JAH3 JAH3 JAH3 de CI4W CI4W**
- **"V H2FL H2FL H2FL DE DRV8 DRV8". First copied on 24 May. Both the frequencies and callsigns are new: 6773//8040 kHz.**
- **UN2T on 4532 has not been heard since the Chinese Robot Lady appeared on 4530 kHz around 9 May.**

Sample messages

Various dates/times	**UGT COMM BT 1649/2110/z96/8738 AR** **UGT COMM BT 1588/0900/6/4329 AR** **VVV UGT COMM BT 8731/0155/58/8738 AR (x2)**
4225//5500 kHz, 2032 UTC, 2 May	**VVV HR 7GGA (x3)** **7GNR 02/CCK CK 25 37 05030430 RMKS** **8738O1829/1103/1294/8698/1371/8731/1328/8436 (x 2)** **7GNR BT (X3)** **NT54 745U *45NA* U734 4U7T 446N 74NA 446N 4674 7U6N** **T5NA 454U 746N 4460 4U7N N4UN *45NA 45NA* N4UA *45NA*** **7545 N446 7434 7N4N 477N AR AR** **(Returned to round slip 2038z)** **V 7NPE 7NPE 7NPE DE QV5B QV5B** **Message contains 25 groups (CK 25). Did notice that 45NA appeared 4 times in the message. Just noticed that 446N appears twice.**
7582//8110 kHz, 0122 UTC, 3 May	**V 7NPE 7NPE 7NPE DE QV5B QV5B** **VVV UGT COMM BT 1924/0910 FM COMM BT 1924/0910/56/8731 AR (x3 - but actually 5 times since the operator messed up and had to restart msg each time - Hand sent - Long zero). Return to round slip at 0048z but quickly went silent. Operator tried to resend message again, but his signal was**

	extremely weak (mostly unreadable) compared to previous signal strength so stopped sending - appears to be having transmitter problems on both freqs - still on freq as he keys up a carrier once in a while.
4225 kHz, 2029 UTC, 9 May	**VVV CQ GA R QTC HR CQ GA HR CQ GA MSG NR 04/CCK CK 25 37 0510 0450 RMKS 8738 001694/1641/1836/8438/1675/1869/1330/1187 (x3) BT 6506 6AD6 3336 UTDN A6T6 U436 AD.. DNR6 .35U 34.5 NADN 7DD.. 7NUD AD3D 54.T DN7D M5ID N5D. 4ANN 3U4D N7U7 76AD N36T .N4D .T34 AR (x2) SK**
4523 kHz, 1243 UTC, 19 May	**V QPZM QPZM QPZM DE WOXN WOXN HR SVC GA NR 076 2015 RMSK 5470 TO 6243 AR/5474 BT COMM/2100/LZ2906/5470/6233 AR (x2) (Hand sent) HR SVC GA NR 19 2045 RMKS (Returned to round slip for a minute then started message again) HR SVC GA NR 19 2045 RMKS 5470 TO 5438 6928 6018 5468 BT SVC QRW5430 69206010 QRL16 2130 XP5478 AR (x2) (Hand sent) Return to round slip V QPZM QPZM QPZM DE WOXN WOXN at 1254 UTC**

M95



The ENIGMA designator was assigned on 08 Sept 2010. This station was formerly known as N&O designator MV26. M95 is the Morse sister of Chinese voice station V26.

Mode:	**Morse; hand sent.**
Frequencies:	**9153, 7553 kHz**
Transmission times:	**heard between 0800 and 1500 UTC**
Format:	**Callup and message structure varies. Callup as VVV c/s DE c/s. The station sends 3FG messages. See also MV27**
Sample:	**VVV (x2-x6) BNEC(x2-x5) BNEC de XSV70 XSV70 (sent as zero or oh) HR Repeats the above message**

Logs: 7553 kHz, 28-05, 1317 UTC
9153 kHz, 28-05, 1317 UTC

VARIOUS MODES

M42 & X06 - Russian Government / Intelligence

13506	03-05	1309	Mazielka. Sequence: 164532
11411	03-05	1318	Mazielka. Sequence: 164532
13506	04-05	0637	Mazielka. Sequence: 164532
9197	04-05	0646	Mazielka. Sequence: 164532
12091	04-05	1440	Mazielka. Sequence: 216354
14655	0405	1801	Russian DOSC. Msg on link 14271. Mode: CROWD-36
18726	04-05	1805	Russian Gov/Intel. Mode: Baudot 50bd/500Hz FSK
12177	04-05	1807	Russian Gov/Intel. Mode: CROWD-36
9056	05-05	0820	Russian Gov/Intel. "464646464646ryryryry 263 146 5 0810 6543= 13752 98452 09348 31579 …… 86457 =50= 98653 87542 ….. 97879 cfm nil k". Mode: Baudot 50/500
9056	05-05	0823	Russian Gov/Intel. "R315 t82t k R315 t82t k qtc 1t" in CW then Baudot 50/500
9432	05-05	1239	Russian Gov/Intel: K4MT. "ryryyryryryryryryryyw2== 3988 65179 ….. 72690 83296 =50= 70459 01145 …. 58471 09231 =100= 37159 99304 09530 05989 02551 41707 47201 qwr qk rpt k rpt k rpt k rpt k". Mode: Baudot 50/500
9432	05-05	1244	Russian Gov/Intel: K4MT. "NT7P NT7P NT7P de K4MT K4MT k qsy 98732 98732 k qsa 2 rpt k r as - qsw 8388t 8388t k". Mode: CW
13506	07-05	0659	Mazielka
14896	07-05	1118	Mazielka
14861	10-05	0838	Mazielka. Sequence: 542136
9073	10-05	1717	Russian Gov/Intel. Mode: Baudot 200/1000
14812	17-05	0917	Mazielka. Sequence: 246531
7560	18-05	2053	Mazielka. Sequence: 215346
6962	24-05	0526	Mazielka. Sequence: 164532
10193	24-05	0529	Mazielka. Sequence: 164532
10653	27-05	0755	Mazielka. Sequence: 356412

MILITARY STATIONS

M32 - Russian/CIS/Ukrainian Military SSB & CW Stations

6827.0 Russian Navy: "RLO de RIT QTC 299 34 10 0057 299 = RADIOPROGNOZ 10051 03003 30000 00001 … 30011 00011 BT"

7041.0 Russian Mil: 4UOG, PZQH, P6LW, 6P2Z, LEEP, ZLTE, IO5I, XWR8, HAPK, PRNW, BMPV, F2NM, V7PK, 7BLM, ZQHO, XRVH, 2XO1, KP3O, H6KN, BOD5, 8JNV.
"QTC 980 197 1846 980 056 = 5LGs"; "4UOG 270 20 82050 270 = ZOA 880 5FGs"; "ZZQ ZHG ZSN QYT9 K"; "486 1724 2304 486 = ZJK205 = 5FGs"; "690 22 21 1902 690 = 173 = 5FGs 808 k"

7046.0 **Russian Mil: BWPZ, GJML, BWPZ**

7057.5 **Russian Mil: LKFQ, A8TG, FCGF. "807 4629 1204 807 ZNO 565 328"; "407 3629 1211 407 ZOG 565 328 …"**

7566.0 **Russian Navy: RCV 5FG message**

7611.0 **CIS Mil: VW5P DE ZPAJ QTC QRV**

7653.0 **Russian Mil: "G7MA DE NNBP QTC 692 73 2 233T 792 = ZGM = 96 = AAAAA ..."**

7861.0 **Russian Mil: RAL2 radio check with RHW2 RFH2 RDU2 and RBL71**

7931.0 **Russian Mil: EDSG radiocheck with C6JM**

7957.0 **CIS Mil: "POPA DE PUFZ RT17 QSV". Dplex net.**

9068.0 **Russian Navy: "uuu rdl rdl rdl t5635 89166 k"**

9145.0 **Russian Navy: "rgr70 de riw qsu 1 qwh _30 86 qsx 12260 k"**
Russian Navy: "rhy47 de riw qsa ? k - riw sk"

9218.0 **Russian Mil: "RJF95 RJF95 RJF95 de RJF94 RJF94 qsa ? k"**

9346.0 **Russian Navy: "uuu rdl rdl rdl 77831 68739 k"**

10272.0 **CIS Mil: F6ZE duplex radiocheck with JDNC and JGG0.**

10492.0 **Russian warship: RMBB. "... RMBB OK QTC K. RMBB 192 31 2310 555 = SML = MMMMM GNQXT ÜPWÜV ... WCVÄG EÄÄOP + RMBB K". Immediately followed by another long message (174 groups) with same crypto indicators: "RMBB 268 174 31 2320 268 = SML MMMMM GNQXT ÜPWÜV ... "**

10543.0 **Russian Navy: RCV 5L message to RIP90.**

10987.0 **Russian Mil: JDI4 5LG message to YEZJ .**
Russian Mil: "3BJC de JDI4 QYD? K. QSA2 QSA? K. QSV K. BK QSA2 QSA? K. R K". Then comms checks with SC4H, OL5P, EDCT, YEZJ, YBMW and TOHT. Duplex.

11064.0 **Russian Navy: "RJP70 DE RIT ZGR?"**

11155.0 **Russian Navy: RIT calling RGR35 for QTC**

11418.0 **Russian Navy: RMP calling RJP70 and RLA88**

14451.0 **Russian Navy: RIT DE RJP70 ZZD**

11475.0 **CIS Mil: "ZCS = ZZD = ?X = ZDS = GNGChX ZZT = MVKLK KVKVL MVLVL KVMKV MMKKV"**

13975.0 **Russian Navy: "rhw2 de ral2 qsa ? k", "rbl71 de ral2 qsa no k"**

14100.0 **Russian Mil: "XXX XXX VK7G VK7G 94522 STEREOSKOP 4235 4481 94522 STEREOSKOP 4235 4481"**

17425.0 **Russian Navy: RGR35 DE RIT QYT4 QSX 18952 OK?**

18107.0 **Russian Mil: "UUU RDL 95491 49097 k"; "RDL 24600 00336 k"**

UTILITY ROUND-UP

Unid stations

11082.0 kHz, 1914 UTC, 14-05: Unid 3K net "VVV VVV 3K"

Unid Indonesian weather? net

Still active on 14277.7 kHz and still no idea who they are.

Unid Asian net

Gary heard an unid Asian net at various dates and frequencies in 2011. The operators are singing and chatting; passionate speeches and group chats are common on this net.

The first time that Gary has copied the net was back in 2009. Please listen to the recording on the N&O website. The station was weak but it is the only recording available at the moment. Can anyone ID the language ?

Logs so far:
6671 kHz, 08-03-2009
6734 kHz, 2244 UTC, 16-01-2011
6734 kHz, 2343 UTC, 01-02-2011
6734 kHz, 2238 UTC, 10-03-2011
6734 kHz, 2228 UTC, 24-03-2011
6734 kHz, 2253 UTC, 02-05-2011
6734 kHz, 05-05

Polish Military

An unid Polish military station was reported by Danix. He writes "I have heard a Polish military "letter station" yesterday. OM was reading 5 letter groups as 2l/3l. After that he said "odbiór" (which is Polish for "reception"), and after short pause the receiving station was heard, unfortnately it was barely audible. Ended with "odebrano" ("received").

Frequency: 4470 kHz
Mode: LSB
Date/Time: 10-5, 1844 UTC

Recording: http://priyom.org/media/15104/unid-4470lsb-20110510-1844z-msg-bydanix.ogg

Copied text:
...IBDY RVXUS EDTAG AHDCL YIWHA RVXUS UIPUW AXCHB MCOWA ALTFT YFLIA RJUUA NLQRA WIYAS EUZEI WGDRA QY... [I have no clue what happened] ...BPJ WYRKW KZLAN RTENH KZLYN EKSPA FIIPC
odbiór
[..., barely audible receiving station]
odebrano

Interesting information and documents about these stations can be found on these websites. Here is website related with those stations:
http://www.bialystok.uw.gov.pl/PUWMCMS/PUW/Struktura/Schemat+organizacyjny/CZK/Informacje+Wydzialu/Ochrona+ludnosci+i+obrony+cywilnej/Organizacja+i+prowadzenie+treningow+SWiAl.htm

And here's that document:
http://www.bialystok.uw.gov.pl/NR/rdonlyres/3C4FC3EB-7CFB-4C9D-804A-8AB072C5392A/11137/Zaldowyt.doc

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Intelligence profile Morocco

Background

In 1860, Spain occupied northern Morocco and ushered in a half century of trade rivalry among European powers that saw Morocco's sovereignty steadily erode; in 1912, the French imposed a protectorate over the country. A protracted independence struggle with France ended successfully in 1956. The internationalized city of Tangier and most Spanish possessions were turned over to the new country that same year. Morocco annexed Western Sahara during the late 1970s, but final resolution on the status of the territory remains unresolved. Gradual political reforms in the 1990s resulted in the establishment of a bicameral legislature, which first met in 1997. Under King MOHAMMED VI - who in 1999 succeeded his father to the throne - human rights have improved.

General

Country name:	**Al Mamlakah al Maghribiyah (Kingdom of Morocco)**
Short name:	**Al Maghrib (Morocco)**
Capitol:	**Rabat**
15 regions:	**Grand Casablanca, Chaouia-Ouardigha, Doukkala-Abda, Fes-Boulemane, Gharb-Chrarda-Beni Hssen, Guelmim-Es Smara, Laayoune-Boujdour-Sakia El Hamra, Marrakech-Tensift-Al Haouz, Meknes-Tafilalet, Oriental, Rabat-Sale-Zemmour-**

Zaer, Souss-Massa-Draa, Tadla-Azilal, Tanger-Tetouan, Taza-Al Hoceima-Taounate.

Note: Morocco claims the territory of Western Sahara, the political status of which is considered undetermined; portions of the regions Guelmim-Es Smara and Laayoune-Boujdour-Sakia El Hamra as claimed by Morocco lie within Western Sahara; Morocco also claims Oued Eddahab-Lagouira, another region that falls entirely within Western Sahara

Military branches

Royal Armed Forces (Forces Armees Royales, FAR): Royal Moroccan Army (includes Air Defense), Royal Moroccan Navy (includes Coast Guard, Marines), Royal Moroccan Air Force (Al Quwwat al Jawyiya al Malakiya Marakishiya; Force Aerienne Royale Marocaine)

Intelligence & Security Agencies

Direction Générale de la Surveillance du Territoire (DGST)
Military intelligence:
- Direction Générale des Études et de la Documentation (DGED)
- 2ème Bureau (2B)
- 5ème Bureau (5B)

Direction Générale de la Surveillance du Territoire (DGST)

The DGST conducts most all of Morocco's intelligence operations, both foreign and domestic. The largest organizational department of the DGST is the counter-intelligence unit. Though the DST is known as both an intelligence agency and a secret police force that sometimes carries out political espionage, the agency does conduct joint operations with allied foreign intelligence services.

Direction Générale des Études et de la Documentation (DGED)

The DGED collects foreign intelligence on behalf of various Moroccan secret services. It follows the activities of the Moroccan emigrants. The DGED is lead by the military. After the attacks in Casablanca in 2003, the fight against terrorism have become an important part of their work.

2ème Bureau (2B)

2B is responsible for military intelligence on foreign military and surveillance of land borders.

5ème Bureau (5B)

5B is responsible for military intelligence in the Moroccan army

References /related websites

- Encyclopedia of Espionage http://www.faqs.org/espionage/index.html
- MRE http://www.mre.ma/modules/newbb/index.php
- Aujourd'hui Le Maroc http://www.aujourdhui.ma
- Algerian-Moroccan relationships http://www.algeria.com/forums/politics-politique
- U.S. Dept. of State http://www.state.gov/g/drl/rls/hrrpt/2003/27934.htm

- CIA World Factbook
- Wikipedia
- Wikileaks

LOGS SECTION

Freq.	enigma	date	UTC	remarks	mode	day	contributor
143	Psy	17-2-2011	----	NATO warnings to Libya on 143.000 MHz	FMN		(anon)
2417.0	V02a	20-5-2011	0200	Atencion 5.... .... Poor signal. Serious xmtr issues, carrier cuts out.	AM	Fri	(BCA)
2680	M22	18-5-2011	2227	4XZ Israeli Navy	CW		(norave)
3246.5	M21	17-5-2011	1858	Russian Air Defense = 992302??0?????	CW		(tING)
3297	M89	1-5-2011	1755	V GKVZ GKVZ GKVZ DE Q7NW Q7NW	CW		(AB-HK)
3297	M89	6-5-2011	1626	V GKVZ GKVZ GKVZ DE Q7NW Q7NW	CW		(AB-HK)
3297	M89	10-5-2011	1609	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Wed)	CW		(JPL-HK)
3297	M89	10-5-2011	1635	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Tue)	CW		(JPL-HK)
3297	M89	13-5-2011	1627	V GKVZ GKVZ GKVZ DE Q7NW Q7NW	CW		(AB-HK)
3297	M89	13-5-2011	1802	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Fri)	CW		(JPL-HK)
3297	M89	15-5-2011	1203	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Sun)	CW		(JPL-HK)
3297	M89	20-5-2011	1830	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Fri)	CW		(JPL-HK)
3297	M89	22-5-2011	1729	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Sun)	CW		(JPL-HK)
3314	M21	1-5-2011	2039	Russian Air Defense = 990042??0?????	CW		(tING)
3327	M89	13-5-2011	1801	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 kHz	CW		(JPL-HK)
3327	M89	16-5-2011	1725	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4523	CW		(JPL-HK)
3327	M89	20-5-2011	1826	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 kHz	CW		(JPL-HK)
3756	S30	4-5-2011	1809	Msg ends with "kak slyshno, priyom"	USB		(Danix)
3756	S30	8-5-2011	2100	The Pip	CW		(AB)
3772	MX	17-5-2011	1916	Channel marker "P" Kaliningrad	CW		(tING)
3791	S32	18-5-2011	0002	Squeaky Wheel on an unusual frequency	USB		(LN2)
3815	G11	13-5-2011	2000	262/00	USB		(Danix)
3815	G11	13-5-2011	2000	262/00	USB	Fri	(HFD)
3815	G11	20-5-2011	2000	260/33 83314 ... 41560. Very strong. End 2000z.	USB		(Danix)
3815	G11	27-5-2011	2000	262/00	USB		(Danix)
3815.0	G11	20-5-2011	0020		USB	Fri	(stefan)
3815.0	G11a	22-5-2011	2000	260/33. Medium to weak sig.	USB	Sun	(SWL1409)
3828.9	S32	8-5-2011	2103	Squeaky Wheel	USB		(AB)
4073	M18	4-5-2011	2122	Time strings 0422 0423 0424 etc. Time sent is UTC+8	CW		(AB)
4150	MX	8-5-2011	2105	Beacon "V" Khiva	CW		(AB)
4150	MX	21-5-2011	1835	Beacon "V" Khiva	CW		(AB)
4150	MX	27-5-2011	2059	Beacon "V" Khiva	CW		(AB)
4150	MX	28-5-2011	2056	Beacon "V" Khiva	CW		(AB)
4153.0	XSL	3-5-2011	0211	Slot machine in progress	USB	Tue	(TI)
4153.0	XSL	6-5-2011	1250	Fair signal. Japanese slot machine in progress.	USB	Fri	(Spec-AUS)
4153.0	XSL	29-5-2011	1104	Fair signal. Japanese Slot Machine in progress.	USB	Sun	(Spec-AUS)
4225	M89	1-5-2011	1754	V 7NPE 7NPE 7NPE DE QV5B QV5B //5500 kHz	CW		(AB-HK)
4225	M89	1-5-2011	2232	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz. Change of freq to 7582//8110 kHz	CW		(JPL-HK)

4225	M89	2-5-2011	2011	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4225	M89	2-5-2011	2240	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz Change of freq to 7582 // 8110 kHz	CW		(JPL-HK)
4225	M89	3-5-2011	1119	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz (Tue) Message sent at 1230z "VVV UGT COMM BT 1808/2100/Z95/8738 AR" (x2) (Hand sent - Long zeros)	CW		(JPL-HK)
4225	M89	7-5-2011	2143	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz Change of freq to 8110 kHz	CW		(JPL-HK)
4225	M89	9-5-2011	2029	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Mon) Message VVV CQ GA R QTC HR CQ GA HR CQ GA MSG NR 04/CCK CK 25 37 0510 0450 RMKS 8738 etc.	CW		(JPL-HK)
4225	M89	10-5-2011	1635	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz (Tue)	CW		(JPL-HK)
4225	M89	11-5-2011	1605	V 7NPE (x3) DE QV5B (x2) (Cont'd) (//5500 N/H) (Wed)	CW		(JPL-HK)
4225	M89	13-5-2011	1623	V 7NPE 7NPE 7NPE DE QV5B QV5B //5500 kHz	CW		(AB-HK)
4225	M89	13-5-2011	1803	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4225	M89	14-5-2011	2302	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz. Change of freq to 7582 //8110 kHz	CW		(JPL-HK)
4225	M89	15-5-2011	1144	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4225	M89	15-5-2011	2316	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz. Change of freq to 7582//8110 kHz	CW		(JPL-HK)
4225	M89	16-5-2011	1102	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4225	M89	16-5-2011	1623	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4225	M89	16-5-2011	1625	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(AB-HK)
4225	M89	16-5-2011	1725	V 7NPE (x3) DE QV5B (x2) (Cont'd) //3327	CW		(JPL-HK)
4225	M89	17-5-2011	2130	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz (Tue)	CW		(JPL-HK)
4225	M89	19-5-2011	1235	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4225	M89	19-5-2011	2227	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz. Change of freq to 7582//8110 kHz	CW		(JPL-HK)
4225	M89	20-5-2011	1827	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4225	M89	22-5-2011	1731	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
4231.5	XSL	3-5-2011	0212	Slot machine in progress	USB	Tue	(TI)
4231.5	XSL	6-5-2011	1253	Fair signal. Japanese slot machine in pro-gress.	USB	Fri	(Spec-AUS)
4231.5	XSL	29-5-2011	1106	Weak signal. Japanese Slot Machine in progress.	USB	Sun	(Spec-AUS)
4243.0	V26	14-5-2011	1205	tuned to in progress, new frequency	USB	Sat	(Token)
4243.0	V26	16-5-2011	1155	tuned to in progress	USB	Mon	(Token)
4243.0	V26	22-5-2011	1207	tuned to in progress	USB	Sun	(Token)
4243.0	V26	23-5-2011	1201		USB	Mon	(Token)
4250	MX	20-5-2011	2107	Beacon "V" Khiva	CW		(AB)
4291.0	XSL	3-5-2011	0212	Slot machine in progress	USB	Tue	(TI)
4325.9	MX	8-5-2011	2109	Beacon "R" Izhevsk	CW		(AB)
4325.9	MX	21-5-2011	1835	Beacon "R" Izhevsk	CW		(AB)

4331	M22	1-5-2011	2128	4XZ Navy Haifa VVV DE 4XZ 4XZ = =	CW		(tING)
4331	M22	17-5-2011	1943	4XZ Israel Navy Haifa VVV DE 4XZ 4XZ = =	CW		(tING)
4331	M22	21-5-2011	2227	4XZ Israeli Navy	CW		(norave)
4410	VC01	1-5-2011	1446	Chinese Robot in progress	USB		(AB-HK)
4410	VC01	1-5-2011	1929	Chinese Robot in progress	USB		(AB-HK)
4410	VC01	2-5-2011	1534	Chinese Robot in progress	USB		(AB-HK)
4410	VC01	3-5-2011	2014	Chinese Robot	USB		(AB-HK)
4410	VC01	4-5-2011	2130	Chinese Robot	USB		(AB-HK)
4476	MX	23-5-2011	2030	Beacon "P" Kaliningrad	CW		(tING)
4478.0	M08a	7-5-2011	1100	5f cut nums: 03121 26802 40831 Good sig.	CW	Sat	(westli)
4478.0	M08a	29-5-2011	1100	5f cut nums: 04521 28301 06362	CW	Sun	(westli)
4485	M51	24-5-2011	0621	5LGs	CW		(ML4)
4516	E06	11-5-2011	1935	829 00000	AM		(LN2)
4523	M89	1-5-2011	1747	V QPZM QPZM QPZM DE WOXN WOXN	CW		(AB-HK)
4523	M89	2-5-2011	1207	V QPZM (x3) DE WOXN (x2) (Cont'd) (Mon)	CW		(JPL-HK)
4523	M89	6-5-2011	1624	V QPZM QPZM QPZM DE WOXN WOXN	CW		(AB-HK)
4523	M89	10-5-2011	1607	V QPZM (x3) DE WOXN (x2) (Cont'd) (Wed)	CW		(JPL-HK)
4523	M89	10-5-2011	1635	V QPZM (x3) DE WOXN (x2) (Cont'd) (Tue)	CW		(JPL-HK)
4523	M89	13-5-2011	1625	V QPZM QPZM QPZM DE WOXN WOXN	CW		(AB-HK)
4523	M89	13-5-2011	1801	V QPZM (x3) DE WOXN (x2) (Cont'd) //3327 kHz	CW		(JPL-HK)
4523	M89	15-5-2011	1203	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4523	M89	16-5-2011	1102	V QPZM (x3) DE WOXN (x2) (Cont'd) (Mon) Changed from 7833//10643 kHz at 1102z	CW		(JPL-HK)
4523	M89	17-5-2011	2128	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568 kHz (Tue)	CW		(JPL-HK)
4523	M89	19-5-2011	1234	V QPZM (x3) DE WOXN (x2) (Cont'd) //5310 kHz	CW		(JPL-HK)
4523	M89	19-5-2011	1243	V QPZM (x3) DE WOXN (x2) (Cont'd) //5310 kHz	CW		(JPL-HK)
4523	M89	20-5-2011	1826	V QPZM (x3) DE WOXN (x2) (Cont'd) //3327 kHz	CW		(JPL-HK)
4523	M89	22-5-2011	1727	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568 kHz	CW		(JPL-HK)
4530	VC01	7-5-2011	2309	Chinese Robot	USB		(JPL-HK)
4530	VC01	9-5-2011	1630	Chinese Robot. Also heard at 1750 & 2014 UTC	USB		(AB-HK)
4530	VC01	10-5-2011	1852	Chinese Robot in progress. Also heard at 2050 UTC	USB		(AB-HK)
4530	VC01	12-5-2011	1230	Chinese Robot (not //7684 kHz)	USB		(Token)
4530	VC01	12-5-2011	1635	Chinese Robot. Also heard at 2043 UTC	USB		(AB-HK)
4530	VC01	13-5-2011	1617	Chinese Robot	USB		(AB-HK)
4530	VC01	14-5-2011	1633	Chinese Robot	USB		(AB-HK)
4530	VC01	15-5-2011	1940	Chinese Robot	USB		(AB-HK)
4530	VC01	19-5-2011	1700	Chinese Robot	USB		(AB-HK)
4530	VC01	20-5-2011	2034	Chinese Robot	USB		(AB-HK)
4530	VC01	21-5-2011	1423	Chinese Robot. Also heard at 1829 UTC	USB		(AB-HK)
4530	VC01	22-5-2011	0937	Chinese Robot. Also heard at 2101 UTC	USB		(AB-HK)
4530	VC01	23-5-2011	1327	Chinese Robot. Also heard at 2115 UTC	USB		(AB-HK)
4530	VC01	24-5-2011	1711	Chinese Robot	USB		(AB-HK)
4530	VC01	25-5-2011	1744	Chinese Robot	USB		(AB-HK)
4530	VC01	26-5-2011	1838	Chinese Robot	USB		(AB-HK)
4530	VC01	27-5-2011	1629	Chinese Robot. Also heard at 2128 UTC	USB		(AB-HK)
4530	VC01	28-5-2011	1837	Chinese Robot	USB		(AB-HK)
4530	VC01	31-5-2011	1607	Chinese Robot	USB		(AB-HK)

4530.0	VC01	14-5-2011	1045	Chinese Robot, on at same time but not simulcast of 7684 kHz LSB and 7744 kHz	USB	Sat	(Token)
4530.0	VC01	15-5-2011	1130	Chinese Robot, changes transmitter every 5 to 7 minutes	USB	Sun	(Token)
4530.0	VC01	20-5-2011	1545	Weak, moderate QRM. Chinese Robot in progress.	USB	Fri	(Spec-HK)
4530.0	VC01	28-5-2011	1620	Weak signal. Chinese Robot in progress.	USB	Sat	(Spec-AUS)
4530.0	VC01	29-5-2011	1058	Fair signal. Chinese Robot in progress.	USB	Sun	(Spec-AUS)
4530.0	VC01	30-5-2011	1247	Very weak signal. Chinese Robot in progress.	USB	Mon	(Spec-AUS)
4532	M89	1-5-2011	1753	V JA3L JA3L JA3L DE UN2T UN2T	CW		(AB-HK)
4532	M89	2-5-2011	1211	V JA3L (x3) DE UN2T (x2) (Cont'd) (Mon)	CW		(JPL-HK)
4532	M89	6-5-2011	1625	V JA3L JA3L JA3L DE UN2T UN2T	CW		(AB-HK)
4558.2	MX	12-5-2011	1638	Beacon "F" Vladivostok	CW		(AB-HK)
4558.2	MX	14-5-2011	1630	Beacon "F" Vladivistok	CW		(AB-HK)
4586	S06	17-5-2011	1950	125 125 125 00000. later 123456789	AM		(tING)
4586	S06	23-5-2011	1950	125, 005, 51, msg 5ng, ending 0 0 0 0 0	AM		(tING)
4586	S06	26-5-2011	1950	125 005 51 10664 ... 31543 005 51 00000	AM		(Danix)
4600	V24	3-4-2011	1400	5FGs	AM	Sun	(Token)
4600	V24	4-4-2011	1400	5FGs	AM	Mon	(Token)
4600	V24	22-4-2011	1430		AM	Fri	(Token)
4600.0	V24	3-5-2011	1400	4f	AM	Tue	(Token)
4600.0	V24	7-5-2011	1430	5f	AM	Sat	(Token)
4600.0	V24	8-5-2011	1430	5f	AM	Sun	(Token)
4600.0	V24	8-5-2011	1530	4f	AM	Sun	(Token)
4600.0	V24	18-5-2011	1400		AM	Wed	(Token)
4600.0	V24	23-5-2011	1430	5f	AM	Mon	(Token)
4625	S28	1-5-2011	2136	Buzzer	USB		(tING)
4625	S28	8-5-2011	2100	Buzzer	USB		(AB)
4625	S28	11-5-2011	1256	Male voice. MDZhB MDZhB 66 319 GLOTIHA 64 29 47 76	USB		(AB-EST)
4625	S28	11-5-2011	1304	Male voice. MDZhB MDZhB 35 990 ILOTICIN 36 19 69 46	USB		(AB-EST)
4625	S28	11-5-2011	1403	Male voice. MDZhB MDZhB 22 806 KLORAPATIT 80 80 29 83	USB		(AB-EST)
4625	S28	12-5-2011	1330	Male voice. MDZhB MDZhB 16 559 GLOKT 65 83 69 34	USB		(AB-EST)
4625	S28	13-5-2011	1340	Male voice. MDZhB MDZhB 00760 Klovir 67 36 65 89	USB		(AB-EST)
4625	S28	19-5-2011	1453	Male voice. MDZhB MDZhB 19 086 Plintusnyj 17 90 66 50	USB		(AB-EST)
4670	S28	1-5-2011	2147	Buzzer. Parasitic transmission	USB		(tING)
4670	S28	2-5-2011	1757	Harmonics	USB		(Danix)
4845	S06s	19-5-2011	1400	624 913 5 33953	AM		(FN)
4860	M89	1-5-2011	2020	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k //6840 kHz	CW		(AB-HK)
4860	M89	2-5-2011	1620	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k //6840 kHz. Weird sounding transmission	CW		(AB-HK)
4860	M89	6-5-2011	1619	VVV Q2M Q2M Q2M DE NYZ NYZ //6840 kHz	CW		(AB-HK)
4860	M89	13-5-2011	1819	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //6840 kHz	CW		(JPL-HK)
4860	M89	16-5-2011	1625	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) // 6840 kHz	CW		(AB-HK)
4860	M89	16-5-2011	1719	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) // 6840 kHz	CW		(JPL-HK)

4860	M89	17-5-2011	2119	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Tue) //6840 kHz	CW		(JPL-HK)
4860	M89	19-5-2011	2219	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840 kHz	CW		(JPL-HK)
4895	M01b	6-5-2011	2010	467 //5340	CW	Fri	(HFD)
4896	M01b	13-5-2011	2010	467 ...	CW		(FN)
4900	V24	4-4-2011	1500	5FGs	AM	Mon	(Token)
4900	V24	17-4-2011	1500	5FGs	AM	Sun	(Token)
4900.0	V24	14-5-2011	1200	5f	AM	Sat	(Token)
4900.0	V24	15-5-2011	1200	5f	AM	Sun	(Token)
4900.0	V24	15-5-2011	1530	5f	AM	Sun	(Token)
4900.0	V24	27-5-2011	1330	5f	AM	Fri	(Token)
4900.0	V24	28-5-2011	1329	5f, start 1 minute early	AM	Sat	(Token)
4905	M01	5-5-2011	2000	025-341/30=98545	CW	Thu	(HFD)
4905	M01b	19-5-2011	2000	025 426 30 = 89788	CW		(FN)
4909	E11	11-5-2011	1445	287/00 weak	USB	Wed	(HFD)
4909	E11	18-5-2011	1445	287/00. Very strong. End 1448z.	USB		(Danix)
4909	E11	21-5-2011	0900	248/00. Good signal. End 0903z.	USB		(Danix)
4909	E11	28-5-2011	0900	248/00	USB		(Danix)
4909	E11	28-5-2011	1445	287/00	USB		(Danix)
4909	E11a	7-5-2011	1445	280/35. Very strong and clear. Audible TX hickups. End 1455z.	USB		(Danix)
4909.0	E11	18-5-2011	1445	Fair signal. 287/00 End 1448z.	USB	Wed	(Spec)
4958	G06	2-5-2011	1800	439:0	AM	Mon	(HFD)
4958	G06	9-5-2011	1800	439 439 439 00000	USB		(Danix)
4958	G06	9-5-2011	1800	439 000	AM		(HS2)
4973	S21	3-5-2011	1742	973-760/31=70528 5373 strong 4973 bad modulation //5373	USB	Tue	(HFD)
4973	S21	10-5-2011	1741	973 760 31 70528 19662 .... 79725 //5373 kHz	USB		(HS2)
4973	S21	12-5-2011	1740	973 760 31 70528 19662 .... 79725 //5373 kHz	USB		(HS2)
5065	M01b	5-5-2011	1940	936-573/36=93418 started at 1940Z! //5805	CW	Thu	(HFD)
5074	M45	3-5-2011	1702	074-760/31=70528 5474 strong //5474	CW	Tue	(HFD)
5075	M01b	20-5-2011	1902	335 (not 336!)-### /31=21231 //5465	CW	Fri	(HFD)
5077	M01b	13-5-2011	1902	336 495 31 = 21231	CW		(FN)
5095	M01b	12-5-2011	1832	815-495/31=21231 //5760	CW	Thu	(HFD)
5115	V24	2-4-2011	1530		AM	Sat	(Token)
5115	V24	17-4-2011	1530		AM	Sun	(Token)
5115.0	V24	13-5-2011	1630	4f	AM	Fri	(Token)
5115.0	V24	20-5-2011	1500	5f, possible new music	AM	Fri	(Token)
5115.0	V24	21-5-2011	1500	5f	AM	Sat	(Token)
5115.0	V24	22-5-2011	1630	4f	AM	Sun	(Token)
5115.0	V24	27-5-2011	1629	4f, started exactly 1 minute early	AM	Fri	(Token)
5125	M01b	2-5-2011	1810	Msg	MCW		(Danix)
5125	M01b	2-5-2011	1810	364-573/36=92418 //5735	CW	Mon	(HFD)
5127	M01b	9-5-2011	1810	364 495 31 = 21231	CW		(FN)
5150	M01b	2-5-2011	1915	858-573/36=92418 //5475	CW	Mon	(HFD)
5152	M01b	9-5-2011	1915	858 495 31 = 31231	CW		(FN)
5153.7	MX	21-5-2011	1939	Beacon "D"	CW		(ML4)
5154	MX	21-5-2011	1939	Beacon "C"	CW		(ML4)
5154.2	MX	12-5-2011	1638	Beacon "F" Vladivostok	CW		(AB-HK)
5208	M51	31-5-2011	0104	BT NR 86 M 3? ??:01:?? 1983 BT	CW		(Jon-FL)
5278	M89	2-5-2011	1209	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Mon)	CW		(JPL-HK)
5280	M01	3-5-2011	1800	025	CW	Tue	(HFD)
5281	M01	19-5-2011	1800	025 937 30 = 97470	CW		(FN)

5282	M01	24-5-2011	1800	025 139 30 = 90373	CW		(FN)
5310	M89	19-5-2011	1234	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 kHz	CW		(JPL-HK)
5320	S06s	19-5-2011	1400	624 913 5 33953	AM		(FN)
5320	S06s	19-5-2011	1400	624	AM	Thu	(HFD)
5340	M01b	6-5-2011	2010	467 //4895	CW	Fri	(HFD)
5340	M01b	27-5-2011	1910	467 495 31 21231 ... 02282 495 31 000	CW		(Danix)
5341	M01b	13-5-2011	2010	467 495 31 = 21231	CW		(FN)
5341.1	M01b	6-5-2010	2010	Slow CW starting with call of 467	CW		(MUK)
5373	S21	3-5-2011	1742	973-760/31=70528 5373 strong 4973 bad modulation //4973	USB	Tue	(HFD)
5373	S21	19-5-2011	1742	msg	AM		(Danix)
5373	S21	26-5-2011	1742	973 760 31 70528 ... 79725 760 31 000	AM		(Danix)
5373.0	S21	3-5-2011	1742	Strong signal. Caught in progress. End 1752z	USB	Tue	(Spec)
5373.0	S21	10-5-2011	1742	Strong. 973 760 31 End 1753z.	USB	Tue	(Spec)
5373.0	S21	12-5-2011	1741	Fair signal. 973 760 31 70528 ..... 79725 760 31 000 End 1753z.	USB	Thu	(Spec)
5373.0	S21	19-5-2011	1742	Very weak signal, faint audio. Difficult to read.	USB	Thu	(Spec)
5373.0	S21	26-5-2011	1742	Fair. 973 760 31 70528 ..... 79725 760 31 000 End 1752z.	USB	Thu	(Spec)
5417.0	V02a	20-5-2011	0200	20/May 0200z 5417kHz AM V2a SSYL atenci_n: .... Very weak sig.	AM	Fri	(westli)
5430	S06s	17-5-2011	0700	374	AM		(FN)
5430	S06s	24-5-2011	0700	374 ...	AM		(FN)
5436	S32	8-5-2011	----	Squeaky Wheel on an unusual frequency	USB		(Danix)
5465	M01b	20-5-2011	1902	335 (not 336!)-### /31=21231 //5075	CW	Fri	(HFD)
5467	M01b	13-5-2011	1902	336 495 31 = 21231	CW		(FN)
5473	S32	17-5-2011	1610	Alfa-45, Alfa-45, 71 617 PUShEChNYJ 16 38 95 55	USB		(Avare)
5474	M45	3-5-2011	1702	074-760/31=70528 5474 strong //5074	CW	Tue	(HFD)
5475	M01b	2-5-2011	1915	858-573/36=92418 //5150	CW	Mon	(HFD)
5475	M45	24-5-2011	1702	074 760 30 70528	CW		(FN)
5477	M01b	9-5-2011	1915	858 495 31 = 31231	CW		(FN)
5500	M89	1-5-2011	1747	V 7NPE 7NPE 7NPE DE QV5B QV5B //4225 kHz	CW		(AB-HK)
5500	M89	1-5-2011	2232	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz. Change of freq to 7582//8110 kHz	CW		(JPL-HK)
5500	M89	2-5-2011	1204	V 7NPE (x3) DE CI4W (x2) (QV5B has been replaced by CI4W) (Cont'd) //8110 kHz	CW		(JPL-HK)
5500	M89	2-5-2011	1224	V 7NPE (x3) DE CI4W (x2) (Cont'd) //8110 kHz. (Mon)	CW		(JPL-HK)
5500	M89	2-5-2011	2011	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz (Mon). Earlier was sending 7NPE DE CI4W - reverted to old call. Msg sent at 2032z.	CW		(JPL-HK)
5500	M89	2-5-2011	2240	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz Change of freq to 7582 // 8110 kHz	CW		(JPL-HK)
5500	M89	3-5-2011	1119	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz (Tue) Message sent at 1230z "VVV UGT COMM BT 1808/2100/Z95/8738 AR" (x2) (Hand sent - Long zeros)	CW		(JPL-HK)
5500	M89	6-5-2011	1622	V 7NPE 7NPE 7NPE DE QV5B QV5B	CW		(AB-HK)
5500	M89	7-5-2011	2143	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz Change of freq to 8110 kHz	CW		(JPL-HK)

5500	M89	10-5-2011	1635	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz (Tue)	CW		(JPL-HK)
5500	M89	13-5-2011	1623	V 7NPE 7NPE 7NPE DE QV5B QV5B //4225 kHz	CW		(AB-HK)
5500	M89	13-5-2011	1803	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Fri) //4225 kHz	CW		(JPL-HK)
5500	M89	14-5-2011	2302	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz. Change of freq to 7582 //8110 kHz	CW		(JPL-HK)
5500	M89	15-5-2011	1144	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Sun) //4225 kHz	CW		(JPL-HK)
5500	M89	15-5-2011	2316	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz. Change of freq to 7582//8110 kHz	CW		(JPL-HK)
5500	M89	16-5-2011	1112	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Mon) //4225 kHz	CW		(JPL-HK)
5500	M89	16-5-2011	1623	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz. Message sent at 1706z	CW		(JPL-HK)
5500	M89	16-5-2011	1625	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz	CW		(AB-HK)
5500	M89	17-5-2011	1707	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Tue)	CW		(JPL-HK)
5500	M89	17-5-2011	2130	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz (Tue)	CW		(JPL-HK)
5500	M89	19-5-2011	1235	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz	CW		(JPL-HK)
5500	M89	19-5-2011	2227	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz	CW		(JPL-HK)
5500	M89	20-5-2011	1827	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz	CW		(JPL-HK)
5500	M89	22-5-2011	1731	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 kHz	CW		(JPL-HK)
5715	M94	23-4-2011	1400	ID 1014	MCW	Sat	(Token)
5715	V24	4-4-2011	1300	bad audio buzz	AM	Mon	(Token)
5715	V24	10-4-2011	1430	5FGs	AM	Sun	(Token)
5715	V24	27-4-2011	1420	5FGs, note new time slot or error, 1st report of this time slot	AM	Wed	(Token)
5715.0	V24	1-5-2011	1200		AM	Sun	(Token)
5715.0	V24	1-5-2011	1300	5f	AM	Sun	(Token)
5715.0	V24	2-5-2011	1200	5f, new music	AM	Mon	(Token)
5715.0	V24	2-5-2011	1300	5f	AM	Mon	(Token)
5715.0	V24	3-5-2011	1120	5f, note new time slot and before 1200, 1st report of this time slot	AM	Tue	(Token)
5715.0	V24	3-5-2011	1200	5f	AM	Tue	(Token)
5715.0	V24	3-5-2011	1300		AM	Tue	(Token)
5715.0	V24	4-5-2011	1300	5f	AM	Wed	(Token)
5715.0	V24	13-5-2011	1200	5f	AM	Fri	(Token)
5715.0	V24	15-5-2011	1630	5f	AM	Sun	(Token)
5715.0	V24	16-5-2011	1000	5f, new music, new time slot, 1st report of reception this time slot	AM	Mon	(Token)
5715.0	V24	16-5-2011	1100	5f, new time slot, 1st report of reception this time slot	AM	Mon	(Token)
5715.0	V24	18-5-2011	1300		AM	Wed	(Token)
5715.0	V24	19-5-2011	1300	5f	AM	Thu	(Token)
5715.0	V24	20-5-2011	1430	5f	AM	Fri	(Token)
5715.0	V24	21-5-2011	1430	5f	AM	Sat	(Token)
5715.0	V24	24-5-2011	1200	5f	AM	Tue	(Token)
5715.0	V24	24-5-2011	1300	5f	AM	Tue	(Token)
5715.0	V24	25-5-2011	1200	5f	AM	Wed	(Token)
5715.0	V24	25-5-2011	1300	5f	AM	Wed	(Token)

5715.0	V24	27-5-2011	1130	5f	AM	Fri	(Token)
5715.0	V24	28-5-2011	1528	5f, start 1 minute 30 seconds early	AM	Sat	(Token)
5731	E06	6-5-2011	2130	315	AM	Fri	(HFD)
5731	E06	7-5-2011	2137	15gr msg	AM		(NWM)
5731.0	E06	6-5-2011	0021	315 - Lot of noise, disturbed voice	USB	Fri	(stefan)
5731.0	E06	6-5-2011	2130	Fair. 315 876 15 87653 ..... 86421 876 15 00000 End 2138z Scratchy audio.	USB	Fri	(Spec)
5731.0	E06	20-5-2011	2130	Strong. 315 876 876 Blooper. 315 876 15 87653 ..... 86421 876 15 00000 End 2137	USB	Fri	(Spec)
5735	M01b	2-5-2011	1810	364-573/36=92418 //5125	CW	Mon	(HFD)
5737	M01b	9-5-2011	1810	364 495 31 = 21231	CW		(FN)
5752	M21	6-5-2011	2123	PVO	CW		(danix)
5760	M01b	12-5-2011	1832	815-495/31=21231 //5095	CW	Thu	(HFD)
5800	M08a	2-5-2011	0600	20832 27512 58431.	MCW		(Danix)
5800.0	M08a	24-5-2011	0600	5f cut nums: 22741 ..661 52231 QSB3.	MCW	Tue	(westli)
5800.0	M08a	28-5-2011	0600	07571 16162 41662. S9+15dB indoors. QSB2 QRM2.	MCW	Sat	(BCA)
5805	M01b	5-5-2011	1940	936-573/36=93418 started at 1940Z! //5065	CW	Thu	(HFD)
5805	M01b	23-5-2011	1942	936, into 5ng, ending 0 0 0	CW		(tING)
5806	M01b	19-5-2011	1942	936 495 31 = 21231	CW		(FN)
5810	S06s	13-5-2011	0610	934 801 5 24443	USB		(FN)
5810	S06s	20-5-2011	0610	934	AM	Fri	(HFD)
5812	M01b	13-5-2011	1513	158 715 30 = 96821	CW		(FN)
5815	G11	30-4-2011	1325	299/00	USB		(HS2)
5815	G11	1-5-2011	1755	270/00	USB		(HS2)
5815	G11	12-5-2011	1325	299/00	USB		(HS2)
5815	G11	17-5-2011	1755	272/31 16200 ... 56042. Hickups. End 1805z.	USB		(Danix)
5815	G11	20-5-2011	1325	293/34 61340 ... 35944. Very strong. End 1335z.	USB		(Danix)
5815	G11	22-5-2011	1756	270-00	USB		(tING)
5815	G11	24-5-2011	1755	270/00	USB		(Danix)
5815	G11	28-5-2011	1325	299/00	USB		(Danix)
5815	G11	28-5-2011	1325	299/00	USB	Sat	(HFD)
5815	S11a	30-4-2011	1020	228/31	USB		(HS2)
5815	S11a	7-5-2011	1020	221/00	USB	Sat	(HFD)
5815	S11a	21-5-2011	1020	228/35 41277 ... 45057. Very strong signal. End 1031z.	USB		(Danix)
5815	S11a	28-5-2011	1020	221/00	USB		(Danix)
5815.0	G11	17-5-2011	0017	QRM and disturbed audio	USB	Tue	(stefan)
5815.0	G11	17-5-2011	1755	Fair. 272/31 16200 ..... 56042. Distorted voice. End 1805z.	USB	Tue	(Spec)
5815.0	G11	20-5-2011	1325	Weak signal. 293/34 61340 ..... 35944 End 1335z.	USB	Fri	(Spec)
5815.0	G11	24-5-2011	1755	Weak signal. 270/00 End 1758z.	USB	Tue	(Spec)
5815.0	G11	31-5-2011	1755	Weak signal. 270/00 Distorted audio. End 1759z.	USB	Tue	(Spec)
5815.0	S11a	14-5-2011	1020	Fair signal. 221/00 End 1023z.	USB	Sat	(Spec)
5835	S06s	11-5-2011	0830	471 285 6 35824	AM		(FN)
5883	V02a	7-5-2011	0713	Cuban numbers station in progress with 5 figure groups.	AM		(BCA)
5883.0	V02a	19-5-2011	0700	Full scale signal (S9+60dB).	AM	Thu	(BCA)
5898	M08a	23-5-2011	0500	very weak	CW		(Danix)
5898	M08a	28-5-2011	0505	Cuban intel 5F message using cut num-bers	CW		(PPA)
5898.0	M08a	7-5-2011	0500	5f cut nums: 11411 23211 20471	MCW	Sat	(westli)

5898.0	M08a	10-5-2011	0500	5f cut nums: 05401 33881 56141	MCW	Tue	(westli)
5898.0	V02a	7-5-2011	0800	SSYL: .... Caught late. SK01 heard during end of transmission.	AM	Sat	(westli)
5898.0	V02a	31-5-2011	0839	Fair signal. Caught in progress. End 0842z.	AM	Tue	(Spec-AUS)
5943	G06	12-5-2011	1930	218 393 15 45637 28390 65478	AM		(HS2)
5943	G06	27-5-2011	1930	218 393 15 45637 28390 84523 41235 67543 64873 08746 56473 29171 54173 54673 78923 23451 47392 65478 393 15 00000	AM		(Danix)
5943	G06	27-5-2011	1930	218:0	AM	Fri	(HFD)
5943.0	G06	27-5-2011	1930	Fair with QRM from Voice Of Iran. 218 393 15 45637 ..... 65478 393 15 00000 End	USB	Fri	(Spec)
5948	E06	5-5-2011	2030	724 BC QRM	AM	Thu	(HFD)
5948.0	E06	5-5-2011	2030	Strong, heavy QRM. 724 352 15 27431 ..... 54365 352 15 00000 End 2038z.	USB	Thu	(Spec)
5948.0	E06	19-5-2011	2030	Weak, heavy QRM. 724 352 15 27481 ..... 54365 352 15 00000 End 2037z.	USB	Thu	(Spec)
6215	V24	2-4-2011	1500	5FGs	AM	Sat	(Token)
6215	V24	3-4-2011	1500	5FGs	AM	Sun	(Token)
6215	V24	4-4-2011	1600	4FGs	AM	Mon	(Token)
6215	V24	10-4-2011	1500	5FGs	AM	Sun	(Token)
6215.0	V24	1-5-2011	1220	5f, new time slot, new music, 1st report of this time slot	AM	Sun	(Token)
6215.0	V24	2-5-2011	1220	5f, note 2nd use of time slot	AM	Mon	(Token)
6215.0	V24	3-5-2011	1100	note new time slot and before 1200, 1st report of this time slot	AM	Tue	(Token)
6215.0	V24	3-5-2011	1140	5f, note new time slot and before 1200, 1st report of this time slot	AM	Tue	(Token)
6215.0	V24	3-5-2011	1220	5f	AM	Tue	(Token)
6215.0	V24	3-5-2011	1500		AM	Tue	(Token)
6215.0	V24	6-5-2011	1600	4f	AM	Fri	(Token)
6215.0	V24	9-5-2011	1230	5f	AM	Mon	(Token)
6215.0	V24	10-5-2011	1230	5f	AM	Tue	(Token)
6215.0	V24	18-5-2011	1500		AM	Wed	(Token)
6215.0	V24	21-5-2011	1600		AM	Sat	(Token)
6215.0	V24	22-5-2011	1600	4f	AM	Sun	(Token)
6215.0	V24	23-5-2011	1130	5f	AM	Mon	(Token)
6250.0	XSL	3-5-2011	0212	Slot machine in progress	USB	Tue	(TI)
6250.0	XSL	30-5-2011	1227	Fair signal. Japanese Slot Machine in progress.	USB	Mon	(Spec-AUS)
6330	M94	10-4-2011	1400	ID 935	MCW	Sun	(Token)
6330	V24	4-4-2011	1330	4FGs	AM	Mon	(Token)
6330	V24	9-4-2011	1600		AM	Sat	(Token)
6330	V24	10-4-2011	1530		AM	Sun	(Token)
6330.0	M94	27-5-2011	1400	id 935	MCW	Fri	(Token)
6330.0	V24	3-5-2011	1330	4f	AM	Tue	(Token)
6330.0	V24	4-5-2011	1330	4f	AM	Wed	(Token)
6330.0	V24	18-5-2011	1330		AM	Wed	(Token)
6330.0	V24	19-5-2011	1330	4f	AM	Thu	(Token)
6379	M22	5-5-2011	1846	4XZ Israeli Navy Haifa. "VVV DE 4XZ 4XZ = ="	CW		(tING)
6379	M22	17-5-2011	2054	4XZ Israel Navy Haifa VVV DE 4XZ 4XZ = =	CW		(tING)
6379	M22	19-5-2011	1902	4XZ with msg	CW		(Danix)
6379	M22	23-5-2011	2048	4XZ Navy Haifa VVV DE 4XZ 4XZ = =	CW		(tING)
6417.0	XSL	3-5-2011	0212	Slot machine in progress	USB	Tue	(TI)
6417.0	XSL	6-5-2011	1311	Fair signal. Japanese slot machine in progress.	USB	Fri	(Spec-AUS)

6417.0	XSL	29-5-2011	1107	Strong signal. Japanese Slot Machine in progress.	USB	Sun	(Spec-AUS)
6417.0	XSL	31-5-2011	1937	Via GT Australia. Weak, QSB2.	USB	Tue	(SWL1409)
6418	XSL	19-5-2011	1925	i.p., very weak	QPSK		(Danix)
6434	M01	7-5-2011	1500	025	CW	Sat	(HFD)
6445.0	XSL	3-5-2011	0213	Slot machine in progress	USB	Tue	(TI)
6445.0	XSL	6-5-2011	1312	Fair signal. Japanese slot machine in progress.	USB	Fri	(Spec-AUS)
6445.0	XSL	29-5-2011	1108	Strong signal. Japanese Slot Machine in progress.	USB	Sun	(Spec-AUS)
6445.0	XSL	31-5-2011	1939	Via GT Australia. Weak.	USB	Tue	(SWL1409)
6524	M03	10-5-2011	1140	786/30 == 41362 27807...	CW		(HS2)
6524	M03	21-5-2011	1140	786/00	CW	Sat	(HFD)
6666	S06s	10-5-2011	1500	537 940 6 78755	AM		(FN)
6666	S06s	10-5-2011	1500	537	AM	Tue	(HFD)
6666.0	S06s	31-5-2011	1500	Weak signal. 537 00000 End 1504z	USB	Tue	(Spec)
6730	V24	9-4-2011	1330	5FGs	AM	Sat	(Token)
6730	V24	10-4-2011	1330	5FGs	AM	Sun	(Token)
6730	V24	15-4-2011	1430	5FGs	AM	Fri	(Token)
6730	V24	16-4-2011	1430	5FGs	AM	Sat	(Token)
6730.0	V24	6-5-2011	1300		AM	Fri	(Token)
6730.0	V24	6-5-2011	1430		AM	Fri	(Token)
6730.0	V24	6-5-2011	1530		AM	Fri	(Token)
6730.0	V24	6-5-2011	1630	5f	AM	Fri	(Token)
6730.0	V24	7-5-2011	1300	5f	AM	Sat	(Token)
6730.0	V24	13-5-2011	1530	5f	AM	Fri	(Token)
6730.0	V24	14-5-2011	1530	5f	AM	Sat	(Token)
6730.0	V24	15-5-2011	1430	5f	AM	Sun	(Token)
6730.0	V24	16-5-2011	1430	5f	AM	Mon	(Token)
6730.0	V24	20-5-2011	1630	5f	AM	Fri	(Token)
6730.0	V24	21-5-2011	1530	5f	AM	Sat	(Token)
6730.0	V24	22-5-2011	1530	5f	AM	Sun	(Token)
6730.0	V24	23-5-2011	1330	5f	AM	Mon	(Token)
6730.0	V24	27-5-2011	1300	5f	AM	Fri	(Token)
6730.0	V24	27-5-2011	1530	5f	AM	Fri	(Token)
6730.0	V24	28-5-2011	1259	5f, start 1 minute early	AM	Sat	(Token)
6755	S06s	11-5-2011	0820	471 285 6 35824	AM		(FN)
6768	V02a	7-5-2011	0100	YL SS Attencion 5 figs	AM		(RR2)
6768.0	V02a	2-5-2011	0400	SSYL: .... Caught late.	AM	Mon	(westli)
6768.0	V02a	7-5-2011	0100	SSYL atenci_n: 47172 63121 87571 Poor readability	AM	Sat	(westli)
6768.0	V02a	9-5-2011	0400	SSYL atenci_n: 73082 83682 43552	AM	Mon	(westli)
6768.0	V02a	21-5-2011	0100	36261? 055..? 48881 Signal cuts in/out. First two IDs questionable.	AM	Sat	(BCA)
6768.0	V02a	21-5-2011	0100	SSYL atenci_n: 66761 18812 48551 Weak sig. Poor audio. Hard to tell 8 from 5	AM	Sat	(westli)
6770	S06	4-5-2011	1800	471:0	AM	Wed	(HFD)
6770	S06	18-5-2011	1800	471:0	AM	Wed	(HFD)
6770	S06	25-5-2011	1800	471 00000	AM		(Danix)
6770	S06	25-5-2011	1800	471:0	AM	Wed	(HFD)
6770	S06	26-5-2011	1800	471 00000	AM		(Danix)
6770.0	S06	25-5-2011	1800	Strong signal. 471 00000 End 1803z.	USB	Wed	(Spec)
6770.0	S06	26-5-2011	1800	Strong signal. 471 00000 End 1803z.	USB	Thu	(Spec)
6773	M89	24-5-2011	1105	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040 kHz	CW		(JPL-HK)
6773	M89	25-5-2011	0001	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040 kHz	CW		(JPL-HK)

6773	M89	26-5-2011	0937	V H2FL H2FL H2FL DE DRV8 DRV8 //8040 kHz	CW		(AB-HK)
6773	M89	26-5-2011	1053	V H2FL (x3) DE DRV8 (x2) (Cont'd) 6773//8040 kHz	CW		(JPL-HK)
6780	M01	8-5-2011	0700	025	CW	Sun	(HFD)
6780	M01b	19-5-2011	0715	374	CW		(FN)
6780	S06s	3-5-2011	0715	374 821 5 54544 36363 15514 93899 65591	AM		(HS2)
6780	S06s	10-5-2011	0715	374 821 5 54544 36363 15514 93899 65591	AM		(HS2)
6780	S06s	24-5-2011	0715	374 810 5	AM		(FN)
6815	S06s	11-5-2011	1210	481 235 6 78654	AM		(FN)
6815	S06s	18-5-2011	1210	481	AM	Wed	(HFD)
6815.0	S06s	18-5-2011	1210	Very weak. 481 263 5 27775 85025 53552 85193 53594 263 5 00000 End 1215z.	USB	Wed	(Spec)
6827	M32	9-5-2011	2101	Russian Navy: "RLO de RIT QTC 299 34 10 0057 299 = RADIOPROGNOZ 10051 03003 30000 00001 ... 30011 00011 BT"	CW		(MPJ)
6840	M89	1-5-2011	1824	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k	CW		(AB-HK)
6840	M89	1-5-2011	2020	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k //4860 kHz	CW		(AB-HK)
6840	M89	2-5-2011	1219	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //10640 kHz	CW		(JPL-HK)
6840	M89	2-5-2011	1620	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k //4860 kHz	CW		(AB-HK)
6840	M89	6-5-2011	0019	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) // 10640 kHz	CW		(JPL-HK)
6840	M89	6-5-2011	1619	VVV Q2M Q2M Q2M DE NYZ NYZ //4860 kHz	CW		(AB-HK)
6840	M89	11-5-2011	2119	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Wed)	CW		(JPL-HK)
6840	M89	13-5-2011	0319	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //10640 kHz	CW		(JPL-HK)
6840	M89	13-5-2011	1819	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //4860 kHz	CW		(JPL-HK)
6840	M89	16-5-2011	1625	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) // 4860 kHz	CW		(AB-HK)
6840	M89	16-5-2011	1719	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) // 4860 kHz	CW		(JPL-HK)
6840	M89	17-5-2011	0219	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Tue) //10640 kHz	CW		(JPL-HK)
6840	M89	17-5-2011	2119	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Tue) //4860 kHz	CW		(JPL-HK)
6840	M89	19-5-2011	2219	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860 kHz	CW		(JPL-HK)
6855.0	V02a	9-5-2011	0300	SSYL atenci_n: 73082 83682 43552	AM	Mon	(westli)
6856	M14	10-5-2011	1820	163-573/15=45387	CW	Tue	(HFD)
6856	M14	10-5-2011	1820	163 573 15 == 45387 62905 52971	CW		(HS2)
6880	S???	5-5-2011	1850	Ru YL counting 1-9 live	AM	Thu	(HFD)
6887	G06	12-5-2011	1830	842-382/15=58106	AM	Thu	(HFD)
6887	G06	12-5-2011	1830	842 382 15 58106 54678 43567	AM		(HS2)
6887.0	G06	12-5-2011	1830	Strong signal. 842 382 15 58126 .... 43567 382 15 00000 End 1837z.	USB	Thu	(Spec)
6904	M12	9-5-2011	1940	257 257 257 1 2343 69 2343 69 87586 54673 34254 65051 69464 73939 13047 05537 66964 19483 etc	CW		(Danix)
6904	M12	23-5-2011	1940	257 1 1352 44 ?3416 ... 07482 000 000	CW		(Danix)
6918.0	E06	1-5-2011	0030		AM	Sun	(IP-NL)
6918.0	E06	1-5-2011	0030		AM	Sun	(IP-POL)

6918.0	E06	1-5-2011	0030	Fair signal. 759 306 48 39848 ..... 46943 306 48 00000 End 0042z.	USB	Sun	(Spec)
6920.0	E06	1-5-2011	0000		AM	Sun	(JD)
6920.0	E06	1-5-2011	0030	This time /freq every other w/end in April. Nothing on May 14/15th	AM	Sun	(JD)
6943	S06	21-5-2011	1900	837:0	AM	Sat	(HFD)
6948	G06	2-5-2011	0800	215 00000	AM		(HS2)
6948	G06	9-5-2011	0800	215:0	AM	Mon	(HFD)
6948	G06	9-5-2011	0800	215 00000 Counts at 0706z.	AM		(HS2)
6949	E06	7-5-2011	0130	759 162 34 71500 20520 82001 17642 ..... 33723 09926 64108 71566 162 34 00000	AM		(Dan)
6949.0	E06	7-5-2011	0130	Strong. 759 162 34 71500 ..... 71566 162 34 00000 End 0140z.	USB	Sat	(Spec)
6949.0	E06	8-5-2011	0130	Fair. 759 162 34 71500 ..... 71566 162 34 00000 End 0140z.	USB	Sun	(Spec)
6949.0	E06	14-5-2011	0130	Fair. 759 841 30 96935 .... 37405 841 30 00000 End 0139z.	USB	Sat	(Spec)
6949.0	E06	21-5-2011	0130	Strong. 759 468 31 03221 ..... 51537 468 31 00000 End 0140z.	USB	Sat	(Spec)
6949.0	E06	22-5-2011	0130	Fair signal. 759 468 31 03221 ..... 51537 468 31 00000 End 0140z.	USB	Sun	(Spec)
6949.0	E06	28-5-2011	0130	Fair & Fading. 759 264 31 44078 ..... 38209 264 31 00000 End 0139z.	USB	Sat	(Spec)
6949.0	E06	29-5-2011	0130	Weak & fading. 759 264 31 44078 ..... 38209 264 31 00000 End 0140z.	USB	Sun	(Spec)
6962	X06	24-5-2011	0526	Mazielka. Sequence: 164532	AM		(HS2)
6984	S06	19-5-2011	1905	349 628 17 82545 ... 91256 628 17 00000. Repeat of msg from May 12, 1900z. End 1912z.	AM		(Danix)
6984	S06	19-5-2011	1905	Russian Man	AM		(GN2)
6984	S06	23-5-2011	1912	ending 0 0 0 0 0	AM		(tING)
6984	S06	26-5-2011	1900	349 (as of 12/05)	AM		(Danix)
6984	S06	26-5-2011	1905	349-628/17=82545	AM	Thu	(HFD)
6984	S06	30-5-2011	1905	349:0	AM	Mon	(HFD)
6984.0	S06	19-5-2011	1905	Fair signal. 349 628 17 82545 ..... 91256 628 17 00000 End 1912z.	USB	Thu	(Spec)
6984.0	S06	27-5-2011	0019	349 349 349 349 ... 628 628 87 87 ... very strong (9+30)	USB	Fri	(CU)
6984.0	S06	30-5-2011	1905	Fair signal. 349 00000 End 1909z.	USB	Mon	(Spec)
6986	G11	9-5-2011	0940	275/00	USB		(HS2)
6986	G11	12-5-2011	0940	275/00	USB		(HS2)
6986	G11	19-5-2011	0940	275/00	USB	Thu	(HFD)
7038.0	MX	26-5-2011	0130	D beacon.	CW	Thu	(Pres)
7038.7	MX	5-5-2011	1637	Beacon "D" Sevastopol	CW		(AB)
7038.7	MX	21-5-2011	1953	Beacon "D" Sevastopol	CW		(tING)
7038.8	MX	21-5-2011	1951	Beacon "P" Kaliningrad	CW		(tING)
7039	MX	5-5-2011	1637	Beacon "C" Moscow	CW		(AB)
7039	MX	12-5-2011	1638	Beacon "C" Moscow	CW		(AB-HK)
7039	MX	21-5-2011	1958	Beacon "C" Moscow	CW		(tING)
7039.2	MX	5-5-2011	1637	Beacon "F" Vladivostok	CW		(AB-HK)
7039.2	MX	12-5-2011	1638	Beacon "F" Vladivostok	CW		(AB-HK)
7039.4	MX	5-5-2011	1637	Beacon "M" Magadaná	CW		(AB-HK)
7039.4	MX	12-5-2011	2050	Beacon "M" Magadan	CW		(AB-HK)
7245	S06s	10-5-2011	0800	418 237 5 58545 40617 79750 12469 13825	AM		(HS2)
7245	S06s	17-5-2011	0800	418 206 5 59855	AM		(FN)
7335	S06s	11-5-2011	0730	745 893 6 77547	AM		(FN)
7437	E07a	5-5-2011	0430	411:0	AM	Thu	(HFD)

7437	E07a	5-5-2011	0430	411 000	AM		(HS2)
7473	E07a	12-5-2011	0530	147 147 147 1 17763 452 53 452 53 03203 02528 83529 etc.	AM		(Ben)
7473.0	E07a	4-5-2011	2020	Very strong. QRM from nearby station. 147 147 147 000 End 2022z.	USB	Wed	(Spec)
7473.0	E07a	18-5-2011	2020	Strong. 147 1 60401 970 59 09581 ..... 01244 000 000 End 2027z.	USB	Wed	(Spec)
7473.0	E07a	25-5-2011	2020	Fair signal. 147 147 147 000 End 2023z.	USB	Wed	(Spec)
7541	M12	4-5-2011	2120	258:0	CW	Wed	(HFD)
7545	S06s	11-5-2011	1230	967 214 5 19283	AM		(FN)
7545	S06s	11-5-2011	1230	967	AM	Wed	(HFD)
7545.0	S06s	18-5-2011	1230	Very weak. 967 831 5 09274 97835 87564 43696 40340 831 5 00000 End 1235z.	USB	Wed	(Spec)
7553.0	M95	28-5-2011	1317		CW	Sat	(Token)
7553.0	V26	28-5-2011	1332		USB	Sat	(Token)
7560	X06	18-5-2011	2053	Mazielka. Sequence: 215346	AM		(HS2)
7568	M89	17-5-2011	1712	V QPZM (x3) DE WOXN (x2) (Cont'd) (Tue)	CW		(JPL-HK)
7568	M89	17-5-2011	1940	V QPZM QPZM QPZM DE WOXN WOXN	CW		(PPA)
7568	M89	17-5-2011	2128	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 kHz (Tue)	CW		(JPL-HK)
7568	M89	22-5-2011	1727	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 kHz	CW		(JPL-HK)
7568	M89	26-5-2011	1849	V QPZM QPZM QPZM de WOXN WOXN	CW		(AB-HK)
7581	M89	22-5-2011	0144	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 kHz	CW		(JPL-HK)
7582	M89	1-5-2011	0000	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz (Mon)	CW		(JPL-HK)
7582	M89	1-5-2011	2352	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz (Sun)	CW		(JPL-HK)
7582	M89	2-5-2011	2356	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz (Mon)	CW		(JPL-HK)
7582	M89	3-5-2011	0000	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz (Tue)	CW		(JPL-HK)
7582	M89	3-5-2011	0011	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz (Tue)	CW		(JPL-HK)
7582	M89	8-5-2011	2340	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz	CW		(JPL-HK)
7582	M89	13-5-2011	0317	V 7NPE (x3) DE QV5B (x2) (Cont'd) (//8110) (Fri)	CW		(JPL-HK)
7582	M89	13-5-2011	0519	V 7NPE 7NPE 7NPE DE QV5B QV5B //8110 kHz	CW		(AB-HK)
7582	M89	14-5-2011	2336	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz	CW		(JPL-HK)
7582	M89	15-5-2011	0000	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz	CW		(JPL-HK)
7582	M89	15-5-2011	2324	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz	CW		(JPL-HK)
7582	M89	17-5-2011	0226	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8100 kHz (Tue)	CW		(JPL-HK)
7582	M89	20-5-2011	0000	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 kHz	CW		(JPL-HK)
7602	M89	15-5-2011	1617	V DKG6 (x3) DE 3A7D (x2) (Continued)	CW		(JPL-HK)
7602	M89	20-5-2011	1829	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Fri)	CW		(JPL-HK)
7602	M89	20-5-2011	1953	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW		(PPA)
7602	M89	22-5-2011	1726	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Sun)	CW		(JPL-HK)
7611	M12	2-5-2011	0500	615:1	CW	Mon	(HFD)
7611	M32	17-5-2011	1950	VW5P DE ZPAJ QTC QRV	CW		(PPA)

7630	S06s	12-5-2011	1210	314 weak	AM	Thu	(HFD)
7630	S06s	26-5-2011	1240	314 875 9 24457 52455 45219 14544 18501 15809 42584 62845 99359 875 9 00000	AM		(Danix)
7630.0	S06s	26-5-2011	1240	Fair. 314 875 9 24457 52455 45219 14544 18501 15809 42584 62845 99359 875 9 000	USB	Thu	(Spec)
7650	S06s	3-5-2011	1230	278 496 5 45321 89756 45320 08964 12120	AM		(HS2)
7650	S06s	10-5-2011	1230	278 496 5 45321 89756 45320 08964 12120	AM		(HS2)
7650	S06s	17-5-2011	1230	278 964 5 45115	AM		(FN)
7650	S06s	31-5-2011	1230	278	AM	Tue	(HFD)
7650.0	S06s	31-5-2011	1230	Very weak signal. 782 00000 End 1234z.	USB	Tue	(Spec)
7684	VC01	12-5-2011	1230	Chinese Robot (not //4530 kHz)	LSB		(Token)
7684	VC01	19-5-2011	1700	Chinese Robot	LSB		(AB-HK)
7684	VC01	21-5-2011	1423	Chinese Robot. Also heard at 1829 UTC	LSB		(AB-HK)
7684	VC01	23-5-2011	1327	Chinese Robot	LSB		(AB-HK)
7684	VC01	27-5-2011	1629	Chinese Robot	LSB		(AB-HK)
7684	VC01	31-5-2011	1607	Chinese Robot	LSB		(AB-HK)
7684.0	VC01	14-5-2011	1100	Chinese Robot, switched to this frequency form 7744 kHz LSB	LSB	Sat	(Token)
7684.0	VC01	28-5-2011	1619	Fair signal. Chinese Robot in progress.	LSB	Sat	(Spec-AUS)
7718	S06	21-5-2011	1930	366:0	AM	Sat	(HFD)
7744	S06s	10-5-2011	1510	537 940 6 78755	AM		(FN)
7744	S06s	10-5-2011	1510	537	AM	Tue	(HFD)
7744	VC01	13-5-2011	0517	Chinese Robot. Barely audible	LSB		(AB-HK)
7744	VC01	14-5-2011	0507	Chinese Robot. Also heard at 0603 and 2248 UTC	LSB		(AB-HK)
7744	VC01	15-5-2011	0617	Chinese Robot	LSB		(AB-HK)
7744	VC01	16-5-2011	0517	Chinese Robot	LSB		(AB-HK)
7744	VC01	18-5-2011	0612	Chinese Robot	LSB		(AB-HK)
7744	VC01	19-5-2011	0604	Chinese Robot. Very weak	LSB		(AB-HK)
7744	VC01	21-5-2011	0543	Chinese Robot	LSB		(AB-HK)
7744	VC01	22-5-2011	0707	Chinese Robot. Also heard at 0937 UTC	LSB		(AB-HK)
7744	VC01	23-5-2011	0556	Chinese Robot	LSB		(AB-HK)
7744	VC01	24-5-2011	0507	Chinese Robot in progress	LSB		(AB-HK)
7744	VC01	25-5-2011	0529	Chinese Robot in progress	LSB		(AB-HK)
7744	VC01	26-5-2011	0605	Chinese Robot	LSB		(AB-HK)
7744	VC01	27-5-2011	0528	Chinese Robot	USB		(AB-HK)
7744	VC01	27-5-2011	0707	Chinese Robot	LSB		(AB-HK)
7744	VC01	28-5-2011	0558	Chinese Robot	LSB		(AB-HK)
7744	VC01	29-5-2011	0935	Chinese Robot	LSB		(AB-HK)
7744	VC01	29-5-2011	1112	Strong signal. Chinese Robot in progress.	LSB	Sun	(Spec-AUS)
7744	VC01	30-5-2011	0512	Chinese Robot	LSB		(AB-HK)
7744.0	S06s	31-5-2011	1510	Weak signal. 537 00000 End 1514z	USB	Tue	(Spec)
7744.0	VC01	14-5-2011	1045	Chinese Robot, tuned to in progress, 1100 UTC switched frequency to 7684 kHz LS	LSB	Sat	(Token)
7744.0	VC01	29-5-2011	1056	Fair signal. Chinese Robot in progress.	LSB	Sun	(Spec-AUS)
7765	S06s	11-5-2011	1200	481 235 6 78654	AM		(FN)
7765	S06s	18-5-2011	1200	481-253/5=27775	AM	Wed	(HFD)
7765.0	S06s	18-5-2011	1200	Very weak. 481 263 5 27775 85025 53552 85193 53594 263 5 00000 End 1205z.	USB	Wed	(Spec)
7821	VC04	27-4-2011	1322	Chinese numbers. Male voice. 4FGs	USB		(BCA)
7833	M89	8-5-2011	2348	V QPZM (x3) DE WOXN (x2) (Cont'd) (Sun)	CW		(JPL-HK)
7833	M89	15-5-2011	2333	V QPZM (x3) DE WOXN (x2) (Cont'd) (Sun)	CW		(JPL-HK)
7833	M89	16-5-2011	1048	V QPZM (x3) DE WOXN (x2) (Cont'd) //10643 kHz Changed Frequencies at 1102 UTC to 4523 kHz	CW		(JPL-HK)
7833	M89	22-5-2011	0142	V QPZM (x3) DE WOXN (x2) (Cont'd) //10643 kHz	CW		(JPL-HK)

7837	M03	10-5-2011	1115	272/00	CW	Tue	(HFD)
7837	M03	10-5-2011	1115	272/00	CW		(HS2)
7837	M03	18-5-2011	1115	650/00	CW	Wed	(HFD)
7845	S06s	20-5-2011	0600	196-235/7=45751	AM	Fri	(HFD)
7889	S06s	9-5-2011	1610	176 930 5 44708	AM		(FN)
7889	S06s	9-5-2011	1610	176	AM	Mon	(HFD)
7889	S06s	9-5-2011	1610	176 930 5 44708 85356 99691 48595 10518] 1615z Fair Hans MON	USB		(HS2)
7889.0	S06s	23-5-2011	1610	Fair. 176 942 5 67859 45673 28910 90878 12578 942 5 00000 End 1615z.	USB	Mon	(Spec)
7889.0	S06s	30-5-2011	1610	Fair signal. 176 00000 End 1614z.	USB	Mon	(Spec)
7931	M12	2-5-2011	1920	257 257 257 1 2241 80 2241 80 28901 47593 39151 .... 44025 20712 000 000	CW		(Danix)
7931	M12	9-5-2011	1921	257 257 ... 1 then 2343 69 2343 69 and into fast 5FGs: 56834 87586 54673 35145 ... ending 80532 87916 63486 000 000	CW		(MPJ)
7931	M12	23-5-2011	1720	257 257 257 1 => 5F msg ; repeated at 18:20 19:20	CW		(PPA)
7962	XPA2	3-5-2011	2010	msg	AM	Tue	(HFD)
7978	E07	3-5-2011	0700	919 000	AM		(HS2)
7978	E07	5-5-2011	0700	919:0	AM	Thu	(HFD)
7978	E07	5-5-2011	0700	911 000	AM		(HS2)
7978	E07	10-5-2011	0700	919 919 919 000	AM		(FN)
7978	E07	10-5-2011	0700	919 000	AM		(HS2)
7982	S06	2-5-2011	1900	349-628/15=82645	AM	Mon	(HFD)
7982	S06	5-5-2011	1900	349-628/17=82545	AM	Thu	(HFD)
7982	S06	12-5-2011	1900	349 628 17 82545 ... 91256 628 17 00000. End 1907z.	AM		(Danix)
7982	S06	23-5-2011	1900	349 628 17 82545 ... 91256 628 17 00000	AM		(Danix)
7982	S06	23-5-2011	1900	349-628/17=82545	AM	Mon	(HFD)
7982.0	S06	12-5-2011	1900	Strong signal. 349 628 17 82545 ..... 91256 628 17 00000 End 1907z.	USB	Thu	(Spec)
7982.0	S06	23-5-2011	1900	Fair. 349 628 17 82545 ..... 91256 628 17 00000 End 1907z.	USB	Mon	(Spec)
7982.0	S06	23-5-2011	1900	ID:349. Med to strong sig.	USB	Mon	(SWL1409)
8009.0	M08a	2-5-2011	2300		CW	Mon	(stefan)
8040	M89	24-5-2011	1105	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773 kHz	CW		(JPL-HK)
8040	M89	25-5-2011	0001	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773 kHz	CW		(JPL-HK)
8040	M89	26-5-2011	0937	V H2FL H2FL H2FL DE DRV8 DRV8 //6773 kHz	CW		(AB-HK)
8040	M89	26-5-2011	1053	V H2FL (x3) DE DRV8 (x2) (Cont'd) 6773//8040 kHz	CW		(JPL-HK)
8043	VC04	19-5-2011	1036	Chinese numbers. Male voice. 4FGs	USB		(BCA)
8047	M12	18-5-2011	1900	463 463 463 1; 9272 88. End 1907z.	CW		(Danix)
8071	M51	31-5-2011	1833	= Nr 66 M 31 20:37:21 1983 = YRQPR OR-MAF ...	CW		(MPJ)
8087	M08a	25-5-2011	1919	cut numbers	CW		(norave)
8088	E11	12-5-2011	1730	416/00	USB		(HS2)
8097.0	M08a	25-5-2011	1900		MCW	Wed	(Pres)
8097.0	M08a	27-5-2011	1900		MCW	Fri	(Pres)
8099	E06	7-5-2011	0030	759 162 34 71500 20520 82001 17642 ..... 33723 09926 64108 71566 162 34 00000	AM		(Dan)
8099	E06	7-5-2011	0030	759 162 34 71500 20520 82001 etc	AM		(NWM)
8099	E06	8-5-2011	0030	759 162 34 etc. End 0040z.	AM		(Danix)

8099	E06	15-5-2011	0030	759 841 30 96935 ... 37405 841 30 00000. Very strong. End 0039z.	AM		(danix)
8099	E06	21-5-2011	0017	Test tone and 759 blooper to 0021z.	AM		(Danix)
8099	E06	21-5-2011	0030	759 468 31 03221 ... 51537 468 31 00000	AM		(Danix)
8099.0	E06	7-5-2011	0030	Fair. 759 162 34 71500 ..... 71566 162 34 00000 End 0040z.	USB	Sat	(Spec)
8099.0	E06	8-5-2011	0030		USB	Sun	(Saber)
8099.0	E06	8-5-2011	0030	Strong. 759 162 34 71500 ..... 71566 162 34 00000 End 0040z.	USB	Sun	(Spec)
8099.0	E06	14-5-2011	0000	759 841 30 96935 77466 82687 61402 41883 23069 69245 69245 57907 97969 46221 7	USB	Sat	(stefan)
8099.0	E06	14-5-2011	0030	Russian Man, fading in places.	USB	Sat	(Saber)
8099.0	E06	14-5-2011	0030	Strong. 759 841 30 96935 .... 37405 841 30 00000 End 0039z.	USB	Sat	(Spec)
8099.0	E06	15-5-2011	0000	Transmitter tuning at 21:12, "759" blooper at 21:14, then message:	USB	Sun	(stefan)
8099.0	E06	15-5-2011	0000	Transmitter tuning at 21:12, "759" blooper at 21:14, then message at 00:30: 759	USB	Sun	(stefan)
8099.0	E06	21-5-2011	0030	Russian Man, mostly clear.	AM	Sat	(Saber)
8099.0	E06	21-5-2011	0030	Strong. 759 468 31 03221 ..... 51537 468 31 00000 End 0040z.	USB	Sat	(Spec)
8099.0	E06	22-5-2011	0030	Fair signal. 759 468 31 03221 ..... 51537 468 31 00000 End 0040z.	USB	Sun	(Spec)
8099.0	E06	27-5-2011	0030		AM	Fri	(Pres)
8099.0	E06	28-5-2011	0030	recording: http://tinyurl.com/3unqygj	USB	Sat	(ID-SVK)
8099.0	E06	28-5-2011	0030	Russian Man with heavy fading.	AM	Sat	(Saber)
8099.0	E06	28-5-2011	0030	Fair & Fading. 759 264 31 44078 ..... 38209 264 31 00000 End 0039z.	USB	Sat	(Spec)
8099.0	E06	29-5-2011	0030	recording: http://tinyurl.com/3utadgh	USB	Sun	(IP-DE)
8099.0	E06	29-5-2011	0030	Very weak. 759 264 31 44078 ..... 38209 264 31 00000 End 0040z.	USB	Sun	(Spec)
8110	M89	1-5-2011	0000	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz (Mon)	CW		(JPL-HK)
8110	M89	1-5-2011	2353	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz. Message sent at 2359z	CW		(JPL-HK)
8110	M89	2-5-2011	1204	V 7NPE (x3) DE CI4W (x2) (QV5B has been replaced by CI4W) (Cont'd) //5500 kHz	CW		(JPL-HK)
8110	M89	2-5-2011	1224	V 7NPE (x3) DE CI4W (x2) (Cont'd) //5500 kHz. Message sent at 1239z)	CW		(JPL-HK)
8110	M89	2-5-2011	2356	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz (Mon)	CW		(JPL-HK)
8110	M89	3-5-2011	0010	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz (Tue)	CW		(JPL-HK)
8110	M89	3-5-2011	0011	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz (Tue) (Message sent at 0045z)	CW		(JPL-HK)
8110	M89	7-5-2011	2143	V 7NPE (x3) DE QV5B (x2) (Cont'd) (Sat)	CW		(JPL-HK)
8110	M89	8-5-2011	2340	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz	CW		(JPL-HK)
8110	M89	13-5-2011	0317	V 7NPE (x3) DE QV5B (x2) (Cont'd) (//7582) (Fri)	CW		(JPL-HK)
8110	M89	13-5-2011	0519	V 7NPE 7NPE 7NPE DE QV5B QV5B //7582 kHz	CW		(AB-HK)
8110	M89	14-5-2011	2336	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz	CW		(JPL-HK)
8110	M89	15-5-2011	0000	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz	CW		(JPL-HK)
8110	M89	15-5-2011	2324	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)

				kHz			
8110	M89	17-5-2011	0226	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz (Tue)	CW		(JPL-HK)
8110	M89	20-5-2011	0000	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 kHz	CW		(JPL-HK)
8135.0	M08a	10-5-2011	2300	5f cut nums: 60.02 .... Very weak sig.	CW	Tue	(westli)
8135.0	M08a	12-5-2011	2300	5f cut nums: 52072 31071 72271 Very weak sig.	CW	Thu	(westli)
8135.0	M08a	19-5-2011	2300	38722 77151 13282. S3. IP. Web radio.	CW	Thu	(BCA)
8135.0	M08a	20-5-2011	2300	5f cut nums: 42582 43732 63212 Weak sig.	CW	Fri	(westli)
8135.0	M08a	27-5-2011	2300	5f cut nums: 20422 41082 34722	CW	Fri	(westli)
8137	E07a	5-5-2011	0450	411:0	AM	Thu	(HFD)
8153.0	E07	3-5-2011	1840	Strong. 346 1 6758 72 27149 ..... 12793 000 000 End 1850z.	USB	Tue	(Spec)
8173	E07a	11-5-2011	2000	147 147 147 1 17763 452 53 452 53 03203 02528 83529 etc.	AM		(Danix)
8173	E07a	18-5-2011	2000	147 147 147 1 60401. Very strong. End 2007z.	USB		(Danix)
8173	E07a	25-5-2011	2000	147 000	AM		(Danix)
8173	M12	3-5-2011	0340	111:1	CW	Tue	(HFD)
8173.0	E07a	4-5-2011	2000	Very strong. 147 147 147 000 End 2002z.	USB	Wed	(Spec)
8173.0	E07a	18-5-2011	2000	Strong. 147 1 60401 970 59 09581 ..... 01244 000 000 End 2007z.	USB	Wed	(Spec)
8173.0	E07a	25-5-2011	2000	Fair signal. 147 147 147 000 End 2003z.	USB	Wed	(Spec)
8186.0	SK01	26-5-2011	1000	Carrier off early.	AM	Thu	(Pres)
8189	VC04	6-3-2011	1018	Chinese numbers. Male voice. 4FGs	USB		(BCA)
8220	S06s	11-5-2011	1240	967 214 5 19283	AM		(FN)
8220.0	S06s	18-5-2011	1240	Very weak. 967 831 5 09274 97835 87564 43696 40340 831 5 00000 End 1245z.	USB	Wed	(Spec)
8263	VC04	27-4-2011	----	Chinese numbers. Male voice. 4FGs	USB		(BCA)
8313	XSL	2-5-2011	0600	Japanese slot machine	PSK		(Vambo)
8313	XSL	11-5-2011	1852	The Slot-Machine	PSK		(tING)
8313.0	XSL	3-5-2011	0213	Slot machine in progress	USB	Tue	(TI)
8313.0	XSL	6-5-2011	1339	Fair signal. Japanese slot machine in pro-gress.	USB	Fri	(Spec-AUS)
8313.0	XSL	29-5-2011	1109	Strong signal. Japanese Slot Machine in progress.	USB	Sun	(Spec-AUS)
8313.15	XSL	10-5-2011	1250	Japanese Slot Machine	PSK		(Pres)
8340	S06s	13-5-2011	0600	934 801 5 24443	USB		(FN)
8340	S06s	13-5-2011	0600	934 801 5 24443 58728 84657 65705 13769	AM		(HS2)
8340	S06s	20-5-2011	0600	934 weak	AM	Fri	(HFD)
8495	MX	6-5-2011	1612	Beacon "S" Sevoromorsk	CW		(AB)
8495	MX	6-5-2011	1646	Beacon "D" Sevastopol	CW		(AB)
8495.2	MX	3-5-2011	0221	Beacon "F" Vladivostok	CW	Tue	(TI)
8495.2	MX	5-5-2011	1637	Beacon "F" Vladivostok	CW		(AB-HK)
8495.2	MX	12-5-2011	1638	Beacon "F" Vladivostok	CW		(AB-HK)
8495.4	MX	3-5-2011	0221	Beacon "M" Magadan	CW	Tue	(TI)
8495.4	MX	5-5-2011	1637	Beacon "M" Magadan	CW		(AB-HK)
8495.4	MX	12-5-2011	1638	Beacon "M" Magadan	CW		(AB-HK)
8530	S11a	10-5-2011	0915	484/00	USB		(HS2)
8530	S11a	13-5-2011	0915	484/00	USB		(HS2)
8530	S11a	17-5-2011	0917	585/00	USB		(tING)
8530	S11a	20-5-2011	0915	484/00	USB	Fri	(HFD)
8588	XSL	2-5-2011	0605	Japanese slot machine	PSK		(Vambo)
8588	XSL	10-5-2011	1250	Japanese Slot Machine	PSK		(Pres)
8588	XSL	19-5-2011	1924	i.p., weak	QPSK		(Danix)

8588.0	XSL	3-5-2011	0213	Slot machine in progress	USB	Tue	(TI)
8588.0	XSL	6-5-2011	1340	Fair signal. Japanese slot machine in progress.	USB	Fri	(Spec-AUS)
8588.0	XSL	29-5-2011	1110	Strong signal. Japanese Slot Machine in progress.	USB	Sun	(Spec-AUS)
8588.0	XSL	31-5-2011	1933	Via GT Australia. Weak.	USB	Tue	(SWL1409)
8703	XSL	19-5-2011	1924	i.p., weak	QPSK		(Danix)
8703.5	XSL	3-5-2011	0213	Slot machine in progress	USB	Tue	(TI)
8703.5	XSL	6-5-2011	1341	Fair signal. Japanese slot machine in progress.	USB	Fri	(Spec-AUS)
8703.5	XSL	10-5-2011	1250	Japanese Slot Machine	PSK		(Pres)
8703.5	XSL	29-5-2011	1111	Strong signal. Japanese Slot Machine in progress.	USB	Sun	(Spec-AUS)
8703.5	XSL	31-5-2011	1935	Via GT Australia. Weak, QSB2.	USB	Tue	(SWL1409)
9040.0	V02a	18-5-2011	0900	SSYL atenci_n: 89482 32722 26162	AM	Wed	(westli)
9040.0	V02a	25-5-2011	0900	SSYL atenci_n: 06041 05812 68712	AM	Wed	(westli)
9056	M42	5-5-2011	0820	Russian Gov/Intel. CW "R315 t82t k R315 t82t k qtc 1t" then RTTY 50/500	CW + Baudot 50/500		(WP3)
9056	M42	5-5-2011	0823	Russian Gov/Intel. 464646464646ryryryry 263 146 5 0810 6543= 13752 98452 09348 31579 àà 86457 =50= 98653 87542 à.. 97879 cfm nil k	Baudot 50/500		(WP3)
9063.0	M08a	6-5-2011	0800	5f cut nums: 32031 30052 37752	MCW	Fri	(westli)
9063.0	M08a	13-5-2011	0800	5f cut nums: 10821 84002 60771	MCW	Fri	(westli)
9063.0	M08a	20-5-2011	0800	5f cut nums: 13121 62132 14281	MCW	Fri	(westli)
9063.0	M08a	27-5-2011	0800	5f cut nums: 82402 80521 62412	MCW	Fri	(westli)
9073	M42	10-5-2011	1717	Russian Gov/Intel.	Baudot 200/1000		(PPA)
9110	S06s	4-5-2011	1910	371	AM	Wed	(HFD)
9110	S06s	11-5-2011	1910	371 485 6 98765	AM		(FN)
9110	S06s	25-5-2011	1910	371 952 6 09245 46862 54039 91082 55456 97481 952 6 00000	AM		(Danix)
9110.0	M08a	27-5-2011	1000		MCW	Fri	(Pres)
9110.0	S06s	4-5-2011	1910	Fair signal. Same message as 1900z. End 1916z.	USB	Wed	(Spec)
9110.0	S06s	18-5-2011	1910	Weak. 371 952 6 09245 46862 54059 91082 55456 97481 952 6 00000 End 1916z.	USB	Wed	(Spec)
9110.0	S06s	25-5-2011	1910	Fair signal. 952 6 09245 46862 54039 91082 55456 97481 952 6 00000 End 1915z.	USB	Wed	(Spec)
9111	M12	2-5-2011	0520	615:1	CW	Mon	(HFD)
9125	S06s	20-5-2011	0610	196	AM	Fri	(HFD)
9138	XPA	10-5-2011	1814	5F message	USB/12 tones Polytone/10/520		(PPA)
9138	XPA	26-5-2011	1810		AM		(Danix)
9138.0	XPA	12-5-2011	1810	Fair signal. End 1815z.	USB	Thu	(Spec)
9138.0	XPA	17-5-2011	0018		USB	Tue	(stefan)
9138.0	XPA	17-5-2011	1810	Fair signal. End 1815z.	USB	Tue	(Spec)
9138.0	XPA	31-5-2011	1810	Strong signal. With message. End 1815z.	USB	Tue	(Spec)
9153.0	M08a	6-5-2011	0700	5f cut nums: 32031 30052 37752 VG sig.	MCW	Fri	(westli)
9153.0	M08a	20-5-2011	0700	5f cut nums: .... Good sig. Caught late.	MCW	Fri	(westli)

9153.0	M08a	27-5-2011	0700	5f cut nums: 42701 51802 10661 VG sig.	MCW	Fri	(westli)
9153.0	M95	28-5-2011	1317		CW	Sat	(Token)
9153.0	V26	8-5-2011	0009		USB	Sun	(stefan)
9153.0	V26	16-5-2011	0433	in progress	USB	Mon	(TI)
9153.0	V26	28-5-2011	1332		USB	Sat	(Token)
9167	M12	25-5-2011	0505	125 125 125 T T T	CW		(PPA)
9173	M12	3-5-2011	0405	111:1 late start due to long msg	CW	Tue	(HFD)
9176	M12	16-5-2011	1900	257 257 257 1 => non repeated 5F group msg ending TTT TTT	CW		(PPA)
9176.0	M12	2-5-2011	2100	Very strong and clear	CW	Mon	(stefan)
9178	E07	5-5-2011	0720	919:0	AM	Thu	(HFD)
9178	E07	10-5-2011	0720	919 919 919 000	AM		(FN)
9197	X06	4-5-2011	0646	Mazielka. Sequence: 164532	AM		(HS2)
9222	M21	5-5-2011	1118	Russian Air Defense. =99?1518?9????? =99?1520?9?????	CW		(WP3)
9240	V02a	4-5-2011	1000	Carrier up at 1000z, no message till about 1004z. YL SS very strong & clear signal.	AM		(RR2)
9240	V02a	12-5-2011	1000	Spanish numbers	AM		(RR2)
9240	V02a	18-5-2011	1000	SS YL "Attencion" once into 5f groups	AM		(RR2)
9240.0	V02a	4-5-2011	1000		AM	Wed	(Pres)
9240.0	V02a	25-5-2011	1000	Down early, no ending.	AM	Wed	(Pres)
9240.0	V02a	25-5-2011	1031	Continued previous.	AM	Wed	(Pres)
9241	M12	4-5-2011	2100	258:0	CW	Wed	(HFD)
9255	S06s	12-5-2011	1230	314 weak	AM	Thu	(HFD)
9255	S06s	26-5-2011	1230	314 875 9 24457 52455 45219 14544 18501 15809 42584 62845 99359 875 9 00000	AM		(Danix)
9255.0	S06s	26-5-2011	1230	Fair. 314 875 9 24457 52455 45219 14544 18501 15809 42584 62845 99359 875 9 000	USB	Thu	(Spec)
9256	S06s	9-5-2011	1600	176 930 5 44708 86356 79671 48595 10518 930 5 00000. End 1605z.	USB		(Danix)
9256	S06s	9-5-2011	1600	176 930 5 44708	AM		(FN)
9256	S06s	9-5-2011	1600	176-930/5=44708	AM	Mon	(HFD)
9256	S06s	23-5-2011	1600	176 942 5 67859 45673 28910 90878 12578 942 5 00000	AM		(Danix)
9256.0	S06s	23-5-2011	1600	Fair. 176 942 5 67859 45673 28910 90878 12578 942 5 00000 End 1605z.	USB	Mon	(Spec)
9256.0	S06s	30-5-2011	1600	Fair signal. 176 00000 End 1604z.	USB	Mon	(Spec)
9262	XPa2	3-5-2011	1950	msg	AM	Tue	(HFD)
9275	V13	1-5-2011	0600	New Star program #4	USB		(AB-HK)
9286.0	E07	3-5-2011	1820	Strong. 346 1 6758 72 27149 ..... 12793 000 000 End 1830z.	USB	Tue	(Spec)
9317	M12	18-5-2011	1910	263:1	CW	Wed	(HFD)
9432	M42	5-5-2011	1239	Russian Gov/Intel: K4MT. ryryyryryryryryryryyw2== 3988 65179 à.. 72690 83296 =50= 70459 01145 à. 58471 09231 =100= 37159 99304 09530 0598	Baudot 50/500		(WP3)
9432	M42	5-5-2011	1244	Russian Gov/Intel: K4MT. "NT7P NT7P NT7P de K4MT K4MT k qsy 98732 98732 k qsa 2 rpt k r as - qsw 8388t 8388t k	CW		(WP3)
9610	E11	10-5-2011	1045	469/00	USB		(HS2)
9610	E11	11-5-2011	1045	469/00	USB	Wed	(HFD)
9610.0	E11	18-5-2011	1045	Fair signal. 469/00 End 1048z.	USB	Wed	(Spec)
9655	S06s	13-5-2011	0940	516 839 7 59562	USB		(FN)
9655	S06s	20-5-2011	0940	516	AM	Fri	(HFD)
9670	S06s	11-5-2011	0850	328 479 5 24350	AM		(FN)
9670	S06s	17-5-2011	0810	418 206 5 59855	AM		(FN)

9725	V13	1-5-2011	0500	New Star program #4	USB		(AB-HK)
9725	V13	6-5-2011	0525	New Star in progress.	USB		(AB-HK)
9725	V13	7-5-2011	0522	New Star in progress	USB		(AB-HK)
9725	V13	7-5-2011	1212	New Star in progress	USB		(AB-HK)
9725	V13	8-5-2011	0620	New Star in progress.	USB		(AB-HK)
9725	V13	8-5-2011	1216	New Star with 4 figure groups.	USB		(BCA)
9725	V13	8-5-2011	1300	New Star. Program #4. Weak and a lot of QRM	USB		(AB-HK)
9725	V13	13-5-2011	0514	NewStar in progrss	USB		(AB-HK)
9725	V13	14-5-2011	0503	New Star in progress	USB		(AB-HK)
9725	V13	14-5-2011	0600	New Star program #4. Music followed by coded messages	USB		(AB-HK)
9725	V13	15-5-2011	0620	New Star in progress	USB		(AB-HK)
9725	V13	16-5-2011	0512	New Star in progress	USB		(AB-HK)
9725	V13	16-5-2011	0600	New Star program #4	USB		(AB-HK)
9725	V13	18-5-2011	0610	New Star in progress	USB		(AB-HK)
9725	V13	19-5-2011	0600	New Star. Program #4. Tune followed by coded messages	USB		(AB-HK)
9725	V13	20-5-2011	0519	New Star in progress	USB		(AB-HK)
9725	V13	21-5-2011	0601	News Star. Program #4. Tune followed by coded messages	USB		(AB-HK)
9725	V13	21-5-2011	1200	Flutes into YL Mandarin + numbers	USB		(RR2)
9725	V13	23-5-2011	0600	Flute tune followed by coded messages	USB		(AB-HK)
9725	V13	24-5-2011	0504	New Star in progress	USB		(AB-HK)
9725	V13	25-5-2011	0527	New Star in progress	USB		(AB-HK)
9725	V13	26-5-2011	0603	New Star	USB		(AB-HK)
9725	V13	27-5-2011	0528	New Star	USB		(AB-HK)
9725	V13	28-5-2011	0600	New Star. Flute tune followed by coded messages	USB		(AB-HK)
9725	V13	30-5-2011	0511	New Star in progress	USB		(AB-HK)
9725.0	V13	7-5-2011	1200	CCYL New Star #4. Msg set: 11-05-1.	USB	Sat	(westli)
9725.0	V13	7-5-2011	1300	CCYL New Star #4. Msg set: 11-05-1.	USB	Sat	(westli)
9725.0	V13	14-5-2011	1200	CCYL New Star #4. Msg set: 11-05-2.	USB	Sat	(westli)
9725.0	V13	14-5-2011	1300	CCYL New Star #4. Msg set: 11-05-2.	USB	Sat	(westli)
9725.0	V13	22-5-2011	1200	CCYL New Star #4. Msg set: 11-05-3.	USB	Sun	(westli)
9725.0	V13	22-5-2011	1300	CCYL New Star #4. Msg set: 11-05-3.	USB	Sun	(westli)
9725.0	V13	28-5-2011	0013	CCYL New Star #4. Msg set: 11-05-4.	USB	Sat	(westli)
9938	XPA	19-5-2011	1750	msg	USB		(Danix)
9938	XPA	26-5-2011	1750		AM		(Danix)
9938.0	XPA	12-5-2011	1750	Fair with QRM. End 1755z.	USB	Thu	(Spec)
9938.0	XPA	17-5-2011	0017		USB	Tue	(stefan)
9938.0	XPA	17-5-2011	1750	Fair signal. End 1755z.	USB	Tue	(Spec)
9938.0	XPA	31-5-2011	1750	Strong signal. With message. End 1755z.	USB	Tue	(Spec)
9967	XPa	10-5-2011	1440	msg	AM	Tue	(HFD)
9967.0	XPA	31-5-2011	1440	Fair signal. Null message. End 1443z.	USB	Tue	(Spec)
9986.3	OLO32	27-5-2011	1839	Czech intel Prague encrypted traffic	Sitor-B		(PPA)
10120	S06s	4-5-2011	0840	328	AM	Wed	(HFD)
10120	S06s	11-5-2011	0840	328 479 5 24350	AM		(FN)
10170	S06s	4-5-2011	1900	371-485/6=98765	AM	Wed	(HFD)
10170	S06s	11-5-2011	1900	371 485 6 98765	AM		(FN)
10170	S06s	25-5-2011	1900	...	AM		(Danix)
10170.0	S06s	4-5-2011	1900	Weak signal. 371 485 6 98765 45633 20918 27760 98016 34561 485 6 00000 End 1906	USB	Wed	(Spec)
10170.0	S06s	18-5-2011	1900	Weak. 371 952 6 09245 46862 54059 91082 55456 97481 952 6 00000 End 1906z.	USB	Wed	(Spec)

10170.0	S06s	25-5-2011	1900	Fair signal. 952 6 09245 46862 54039 91082 55456 97481 952 6 00000 End 1905z.	USB	Wed	(Spec)
10173	M12	3-5-2011	0433	111:1 late start due to long msg	CW	Tue	(HFD)
10193	X06	24-5-2011	0529	Mazielka. Sequence: 164532	AM		(HS2)
10210	E11	12-5-2011	0900	270/00	USB		(HS2)
10230	S06s	9-5-2011	1200	831 476 5 02555	AM		(FN)
10230	S06s	9-5-2011	1200	831-476/5=02555	AM	Mon	(HFD)
10230	S06s	9-5-2011	1200	831 476 5 02555 62325 63514 91285 55371	USB		(HS2)
10230	S06s	9-5-2011	1300	831 476 5 02555 62325 63514 91285 55371 476 5 00000. End 1305z.	USB		(Danix)
10230	S06s	23-5-2011	1200	831 962 5 89235 45637 87923 23524 78901 962 5 00000	AM		(Danix)
10230.0	S06s	16-5-2011	1200	Fair. 831 962 5 89235 45637 87923 23524 78901 962 5 00000 End 1205z.	USB	Mon	(Spec)
10230.0	S06s	23-5-2011	1200	Weak. 831 962 5 89235 45637 87923 23524 78901 962 5 00000 End 1205z.	USB	Mon	(Spec)
10230.0	S06s	30-5-2011	1200	Very weak signal. 831 00000 End 1204z.	USB	Mon	(Spec)
10255	VTN	2-5-2011	1600	Numbers in Vietnamese	USB		(Danix)
10255	VTN	2-5-2011	1611	Hai Dang in progress. Repeat at 1614 UTC	USB		(AB-HK)
10255	VTN	7-5-2011	1615	In progress	USB		(Danix)
10255	VTN	9-5-2011	1559	Fair signal	USB		(HS2)
10255	VTN	31-5-2011	1602	Male voice. Only heard the first part of the transmission	USB		(AB-HK)
10255.0	VTN	7-5-2011	1600	Weak. Vietnamese 30 Grp Message 3 Fig groups. End 1606z.	USB	Sat	(Spec-AUS)
10255.0	VTN	7-5-2011	1607	Weak. Vietnamese 30 Grp Message 3 Fig groups. End 1613z.	USB	Sat	(Spec-AUS)
10255.0	VTN	7-5-2011	1615	Weak. Vietnamese 30 Grp Message 3 Fig groups. End 1621z.	USB	Sat	(Spec-AUS)
10255.0	VTN	12-5-2011	1600	Weak. Vietnamese OM 50 Group message 5 Fig groups. End 1603z.	USB	Thu	(Spec-AUS)
10255.0	VTN	12-5-2011	1604	Weak. Vietnamese OM 50 Group message 5 Fig groups. End 1607z.	USB	Thu	(Spec-AUS)
10255.0	VTN	12-5-2011	1609	Weak. Vietnamese OM 50 Group message 5 Fig groups. End 1612z.	USB	Thu	(Spec-AUS)
10255.0	VTN	20-5-2011	1600	Fair signal. Vietnamese OM 45 Group message 5 Fig groups. End 1603z.	USB	Fri	(Spec-HK)
10255.0	VTN	20-5-2011	1605	Fair signal. Vietnamese OM 45 Group message 5 Fig groups. End 1608z.	USB	Fri	(Spec-HK)
10255.0	VTN	20-5-2011	1609	Fair signal. Vietnamese OM 45 Group message 5 Fig groups. End 1612z.	USB	Fri	(Spec-HK)
10255.0	VTN	28-5-2011	1600	Fair signal. Vietnamese OM 45 group message. 5 Fig groups. End 1603z.	USB	Sat	(Spec-AUS)
10255.0	VTN	28-5-2011	1605	Fair signal. Vietnamese OM 45 group message. 5 Fig groups. End 1608z.	USB	Sat	(Spec-AUS)
10255.0	VTN	28-5-2011	1609	Fair signal. Vietnamese OM 45 group message. 5 Fig groups. End 1612z.	USB	Sat	(Spec-AUS)
10255.0	VTN	31-5-2011	1600	Very weak. Vietnamese OM 45 group message 5 Fig groups. End 1603z.	USB	Tue	(Spec-AUS)
10255.0	VTN	31-5-2011	1605	Very weak. Vietnamese OM 45 group message 5 Fig groups. End 1607z.	USB	Tue	(Spec-AUS)
10255.0	VTN	31-5-2011	1608	Very weak. Vietnamese OM 45 group message 5 Fig groups. End 1612z.	USB	Tue	(Spec-AUS)
10262	XPA2	3-5-2011	1930	msg	AM	Tue	(HFD)
10290	S06s	13-5-2011	0930	516 839 7 59562	USB		(FN)
10290	S06s	20-5-2011	0930	516	AM	Fri	(HFD)

10332.0	E07?	3-5-2011	1800	Weak signal. E07 with E06 voice. End 1810z.	USB	Tue	(Spec)
10336	M21	1-5-2011	0538	Russian Air Defense "=99?T945?9?????"	CW		(MF2)
10404	Psy	23-5-2011	----	NATO psyops against Libya	USB		(HS2)
10432.0	M08a	1-5-2011	0900	5f cut nums: .... Up late IP.	MCW	Sun	(westli)
10432.0	M08a	8-5-2011	0900	5f cut nums: 76061 84601 46711 VG sig.	MCW	Sun	(westli)
10432.0	M08a	13-5-2011	0900	5f cut nums: 10821 32262 56681 VG sig.	MCW	Fri	(westli)
10432.0	M08a	22-5-2011	0900	5f cut nums: 72871 22531 16861 Good sig.	MCW	Sun	(westli)
10432.0	M08a	27-5-2011	0900	5f cut nums: 06141 24242 87042 Good sig.	MCW	Fri	(westli)
10432.0	M08a	29-5-2011	0900	5f cut nums: 51501 43081 77601	MCW	Sun	(westli)
10438.0	XPA	12-5-2011	1730	Fair signal. End 1735z.	USB	Thu	(Spec)
10438.0	XPA	17-5-2011	0017	Recording on: soundcloud.com/stefanazz	USB	Tue	(stefan)
10438.0	XPA	17-5-2011	1730	Fair signal. End 1735z.	USB	Tue	(Spec)
10438.0	XPA	26-5-2011	0017	Strong. Audio and decoding on: http://soundcloud.com/stefanazz/20110526-1730-10	USB	Thu	(stefan)
10438.0	XPA	31-5-2011	1730	Fair signal. With message. End 1735z.	USB	Tue	(Spec)
10445.0	M08a	19-5-2011	0300	36251 82372 05561. XGood signal S9+10dB. IP	CW	Thu	(BCA)
10445.0	M08a	19-5-2011	0300	5f cut nums: 36251 82372 05561 Good sig.	CW	Thu	(westli)
10445.0	M08a	26-5-2011	0300	5f cut nums: 30502 63372 36272 Good sig.	CW	Thu	(westli)
10475	M89	20-5-2011	1841	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Fri) (Weak copy) //11432 kHz	CW		(JPL-HK)
10511	M12	2-5-2011	0540	615:1	CW	Mon	(HFD)
10543	M32	20-5-2011	0333	RCV 5L message to RIP90	CW		(PPA)
10547	E07	5-5-2011	2030	553:0 weak	AM	Thu	(HFD)
10547	E07	12-5-2011	2030	553:0	AM	Thu	(HFD)
10617	M12	18-5-2011	1850	263:1	CW	Wed	(HFD)
10640	M89	2-5-2011	1219	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //6840 kHz	CW		(JPL-HK)
10640	M89	6-5-2011	0019	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) // 6840 kHz	CW		(JPL-HK)
10640	M89	13-5-2011	0319	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //6840 kHz	CW		(JPL-HK)
10640	M89	17-5-2011	0219	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Tue) //6840 kHz	CW		(JPL-HK)
10643	M89	16-5-2011	1048	V QPZM (x3) DE WOXN (x2) (Cont'd) //7833 kHz Changed Frequencies at 1102 UTC to 4523 kHz	CW		(JPL-HK)
10643	M89	17-5-2011	0228	V QPZM (x3) DE WOXN (x2) (Cont'd) (Tue)	CW		(JPL-HK)
10643	M89	22-5-2011	0142	V QPZM (x3) DE WOXN (x2) (Cont'd) //7833 kHz	CW		(JPL-HK)
10653	X06	27-5-2011	0755	Mazielka. Sequence: 356412	AM		(HS2)
10787	XP??	5-5-2011	1900	msg	AM	Thu	(HFD)
10814	M12	20-5-2011	0600	514:1	CW	Fri	(HFD)
10857.0	M08a	11-5-2011	1400	5f cut nums: 85012 74771 18261 Weak sig.	MCW	Wed	(westli)
10857.0	M08a	25-5-2011	1400	5f cut nums: 50412 75141 32272 Good sig.	CW	Wed	(westli)
10867	XPa	10-5-2011	1420	msg	AM	Tue	(HFD)
10867.0	XPA	31-5-2011	1420	Fair signal. Null message. End 1423z.	USB	Tue	(Spec)
10871.8	MX	4-5-2011	0403	Beacon "P" Kaliningrad	CW		(Jon-FL)
10871.9	MX	4-5-2011	0401	Beacon "S" Sevoromorsk	CW		(Jon-FL)

10872	MX	4-5-2011	0402	Beacon "C" Moscow	CW		(Jon-FL)
10872.1	MX	5-5-2011	1637	Beacon "A" Astrakhan	CW		(AB)
10872.1	MX	12-5-2011	1638	Beacon "A" Astrakhan	CW		(AB-HK)
10872.2	MX	3-5-2011	0223	Beacon "F" Vladivostok	CW	Tue	(TI)
10872.2	MX	5-5-2011	1637	Beacon "F" Vladivostok	CW		(AB-HK)
10872.2	MX	12-5-2011	1638	Beacon "F" Vladivostok	CW		(AB-HK)
10872.3	MX	5-5-2011	1637	Beacon "K" Petropavlovsk	CW		(AB-HK)
10872.4	MX	3-5-2011	0223	Beacon "M" Magadan	CW	Tue	(TI)
10872.4	MX	5-5-2011	1637	Beacon "M" Magadan	CW		(AB-HK)
10872.4	MX	12-5-2011	1638	Beacon "M" Magadan	CW		(AB-HK)
11036.0	XPA2	24-5-2011	2222	From Cuba (3rd today)	USB	Tue	(Pres)
11061	---	27-5-2011	1824	Chinese military. 5F msg using cut numbers ending with duplex radio check giving local time as 0224	CW		(PPA)
11136	M51	11-5-2011	0201	5FGs tfc French training net	CW		(MCO)
11138	M51	24-5-2011	1652	BT NR 33 M 24 18:52:59 1983 BT DIIIL VHMRJ OTTVL QAUWR JFEPZ UKSWK ZODHK etc	CW		(TRUK)
11155	M32	20-5-2011	1943	RIT calling RGR35 for QTC	CW		(PPA)
11186	VC04	28-4-2011	0950	Chinese numbers. Male voice. 4FGs	USB		(BCA)
11411	X06	3-5-2011	1318	Mazielka. Sequence: 164532	AM		(HS2)
11431.9	M89	11-5-2011	1817	V RXP7 RXP7 RXP7 DE CZT2 CZT2	CW		(PPA)
11432	M89	10-5-2011	2212	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
11432	M89	14-5-2011	1649	V RXP7 RXP7 RXP7 DE CZT2 CZT2	CW		(PPA)
11432	M89	15-5-2011	1552	V RXP7 (x3) DE CZT2 (x2) (Continued)	CW		(JPL-HK)
11432	M89	18-5-2011	1436	V RXP7 (x3) DE CZT2 (x2) (Continued)	CW		(JPL-AFS)
11432	M89	19-5-2011	1241	V RXP7 (x3) DE CZT2 (x2) (Cont'd)	CW		(JPL-HK)
11432	M89	20-5-2011	1841	V RXP7 (x3) DE CZT2 (x2) (Cont'd) (Fri) //10475	CW		(JPL-HK)
11435	M12	11-5-2011	1830	938 938 938 1 => 5F msg	CW		(PPA)
11539	E07	5-5-2011	2010	553:0 weak QRM	AM	Thu	(HFD)
11539	E07	12-5-2011	2010	553:0	AM	Thu	(HFD)
11539.0	E07	19-5-2011	2010	Very weak signal. Heavy QRM, difficult to read.	USB	Thu	(Spec)
11565.0	M08a	12-5-2011	0400	5f cut nums: 23711 08822 18262	CW	Thu	(westli)
11565.0	M08a	19-5-2011	0400	5f cut nums: 36251 82372 05561 QRM - buzzing signal.	CW	Thu	(westli)
11565.0	M08a	26-5-2011	0400	5f cut nums: 30502 63372 36272 Weak sig. QRM periodic buzzing.	CW	Thu	(westli)
11567	XPa	10-5-2011	1400	msg	AM	Tue	(HFD)
11567.0	XPA	31-5-2011	1400	Fair signal. Null message. End 1403z.	USB	Tue	(Spec)
11581	S11a	10-5-2011	1020	426/00	USB		(HS2)
11581	S11a	20-5-2011	1020	426/00	USB	Fri	(HFD)
11587.0	XPA2	24-5-2011	2214	Cuban.	USB	Tue	(Pres)
11830	S06s	4-5-2011	0740	745	AM	Wed	(HFD)
11830	S06s	11-5-2011	0740	745 893 6 77547	AM		(FN)
12088	E07	1-5-2011	1720	301:0	AM	Sun	(HFD)
12088.0	E07	4-5-2011	1720	Strong signal. 301 301 301 000 End 1722z.	USB	Wed	(Spec)
12091	X06	4-5-2011	1440	Mazielka. Sequence: 216354	AM		(HS2)
12114	M12	20-5-2011	0620	514:1	CW	Fri	(HFD)
12134.0	M08a	9-5-2011	1400	5f cut nums: 36461 52821 58321	CW	Mon	(westli)
12134.0	M08a	12-5-2011	1400	5f cut nums: 22172 33521 18382 Weak sig.	CW	Thu	(westli)
12134.0	M08a	19-5-2011	1400	5f cut nums: 65712 70151 42741	CW	Thu	(westli)
12134.0	M08a	23-5-2011	1400	5f cut nums: 74201 18772 10081 Weak sig.	CW	Mon	(westli)
12134.0	M08a	26-5-2011	1400	5f cut nums: 53402 62722 85252 Weak	CW	Thu	(westli)

				sig.			
12153	E11	9-5-2011	1600	642/26 A 34457 58162 .... 80379] 1608z Fair/Strong QSB3 Hans MON	USB		(HS2)
12153	E11a	12-5-2011	1600	641/20 A 43552 91195 42700	USB		(HS2)
12153	E11a	30-5-2011	1600	648/31 A 27264 ... 09123	USB		(Danix)
12155	S06s	5-5-2011	1200	425	AM	Thu	(HFD)
12155	S06s	19-5-2011	1200	425-916/7=45410	AM	Thu	(HFD)
12155	S06s	26-5-2011	1200	425 916 7 45410 56479 55954 62387 45543 73765 74153 916 7 00000	AM		(Danix)
12155.0	S06s	26-5-2011	1200	Fair signal. 425 916 7 45410 56479 55954 62387 45543 73765 74153 916 7 00000	USB	Thu	(Spec)
12165	S06s	9-5-2011	1210	831 476 5 02555	AM		(FN)
12165	S06s	9-5-2011	1210	831	AM	Mon	(HFD)
12165	S06s	9-5-2011	1210	831 476 5 02555 62325 63514 91285 55371	USB		(HS2)
12165	S06s	9-5-2011	1310	Same message as 1400z. End 1315z.	USB		(Danix)
12165.0	S06s	16-5-2011	1210	Fair. 831 962 5 89235 45637 87923 23524 78901 962 5 00000 End 1215z.	USB	Mon	(Spec)
12165.0	S06s	23-5-2011	1210	Weak. 831 962 5 89235 45637 87923 23524 78901 962 5 00000 End 1215z.	USB	Mon	(Spec)
12165.0	S06s	30-5-2011	1210	Weak signal. 831 00000 End 1214z.	USB	Mon	(Spec)
12177	M42	4-5-2011	1807	Russian Gov/Intel.	CROWD36		(Danix)
12180.0	M08a	24-5-2011	1900	5f cut nums:	MCW	Tue	(westli)
12180.0	V02a	19-5-2011	1900	SSYL atenci_n:	AM	Thu	(westli)
12182	V07	8-5-2011	0528	in progress with a female reading 5FGs in Spanish ... 53202 88582 77323 10263 38567 44715 73774 60569 20680 000 000	AM		(BCA)
12217	M12	18-5-2011	1830	263:1	CW	Wed	(HFD)
12850	E17z	5-5-2011	0810	674 290 5 23146 27745 56314 93785 63651	USB		(HS2)
12850	E17z	12-5-2011	0810	674	USB	Thu	(HFD)
12850	E17z	12-5-2011	0810	674 290 5 23146 27745 56314 93785 63651	USB		(HS2)
12850.0	E17z	5-5-2011	0810	Fair. 674 390 5 33546 37745 56654 93785 63655 390 5 00000 End 0815z.	USB	Thu	(Spec)
12850.0	E17z	19-5-2011	0810	Weak. 674 892 5 95085 18218 75354 83567 28336 892 5 00000 End 0815z.	USB	Thu	(Spec)
12850.0	E17z	26-5-2011	0810	Fair with QRM. 674 892 5 95085 18218 75354 83567 28336 892 5 00000	USB	Thu	(Spec)
12924	E11	5-5-2011	0830	649/00	USB		(HS2)
12924	E11	12-5-2011	0830	649/00	USB		(HS2)
12924	E11	23-5-2011	0830	647/37	USB	Mon	(HFD)
12935	S06s	10-5-2011	0810	352 479 6 98740	AM		(FN)
12935	S06s	10-5-2011	0810	352 479 6 98740 54262 37554 29398 24532 63692	AM		(HS2)
13380.0	M08a	3-5-2011	2000	5f cut nums: .... Up late IP.	MCW	Tue	(westli)
13380.0	M08a	5-5-2011	2000	5f cut nums: 23422 ..882 67002 Weak sig.	MCW	Thu	(westli)
13380.0	M08a	24-5-2011	2000	Fading. Carrier drops, weak signal.	AM	Tue	(Pres)
13380.0	M08a	24-5-2011	2000	5f cut nums:	MCW	Tue	(westli)
13380.0	V02a	19-5-2011	2000	SSYL atenci_n: 37352 43731 18442	AM	Thu	(westli)
13380.0	V02a	26-5-2011	2000		AM	Thu	(Pres)
13380.0	XPA2	24-5-2011	2110	Out of cuba!	USB	Tue	(Pres)
13388	E07	1-5-2011	1700	301:0	AM	Sun	(HFD)
13388	E07	1-5-2011	1700	301 000	AM		(HS2)
13388	E07	4-5-2011	1700	301 000	AM		(HS2)
13388.0	E07	4-5-2011	1700	Strong signal. 301 301 301 000 End 1702z.	USB	Wed	(Spec)
13412	E07	2-5-2011	1920	845:0	AM	Mon	(HFD)
13412	E07	9-5-2011	1920	845 845 845 000	AM		(FN)
13412	E07	11-5-2011	1920	845 845 845 000	AM		(FN)

13412	E07	25-5-2011	1920	845 000	AM		(Danix)
13412.0	E07	2-5-2011	1920	Strong, heavy QRM. 845 845 845 000 End 1923z. Sorry date correction 02-05-2011	USB	Mon	(Spec)
13412.0	E07	9-5-2011	1920	Strong, heavy QRM. 845 845 845 000 End 1922z.	USB	Mon	(Spec)
13412.0	E07	18-5-2011	1920	Very weak. 845 845 845 000 End 1922z.	USB	Wed	(Spec)
13412.0	E07	25-5-2011	1920	Fair signal. 845 845 845 000 End 1923z.	USB	Wed	(Spec)
13412.0	E07	30-5-2011	1920	Weak signal. 845 845 845 000 End 1923z.	USB	Mon	(Spec)
13414	M12	20-5-2011	0640	514:1	CW	Fri	(HFD)
13424	E11	24-5-2011	0645	517/00	USB	Tue	(HFD)
13506	X06	3-5-2011	1309	Mazielka. Sequence: 164532	AM		(HS2)
13506	X06	4-5-2011	0637	Mazielka. Sequence: 164532	AM		(HS2)
13506	X06	7-5-2011	0659	Mazielka.	AM		(EW)
13527.7	MX	5-5-2011	1637	Beacon "D" Sevastopol	CW		(AB)
13527.7	MX	9-5-2011	1807	Beacon "D" Sevastopol	CW		(MPJ)
13527.7	MX	12-5-2011	1638	Beacon "D" Sevastopol	CW		(AB-HK)
13527.7	MX	31-5-2011	1958	Beacon "D" Sevastopol	CW		(MPJ)
13528	MX	5-5-2011	1637	Beacon "C" Moscow	CW		(AB)
13528	MX	9-5-2011	1807	Beacon "C" Moscow	CW		(MPJ)
13528	MX	12-5-2011	1638	Beacon "C" Moscow	CW		(AB-HK)
13528	MX	31-5-2011	1958	Beacon "C" Moscow	CW		(MPJ)
13528.1	MX	5-5-2011	1637	Beacon "A" Astrakhan	CW		(AB)
13528.1	MX	9-5-2011	1807	Beacon "A" Astrakhan	CW		(MPJ)
13528.1	MX	12-5-2011	1638	Beacon "A" Astrakhan	CW		(AB-HK)
13528.1	MX	31-5-2011	1958	Beacon "A" Astrakhan	CW		(MPJ)
13528.2	MX	3-5-2011	0223	Beacon "F" Vladivostok	CW	Tue	(TI)
13528.2	MX	5-5-2011	1637	Beacon "F" Vladivostok	CW		(AB-HK)
13528.2	MX	12-5-2011	1638	Beacon "F" Vladivostok	CW		(AB-HK)
13528.4	MX	3-5-2011	0223	Beacon "M" Magadan	CW	Tue	(TI)
13528.4	MX	5-5-2011	1637	Beacon "M" Magadan	CW		(AB-HK)
13528.4	MX	12-5-2011	1638	Beacon "M" Magadan	CW		(AB-HK)
13528.4	MX	21-5-2011	0546	Beacon "M" Magadan	CW		(AB-HK)
13545	XPA	30-5-2011	2020	msg new sked?	AM	Mon	(HFD)
14100	M32	12-5-2011	1145	Russian Mil. "XXX XXX VK7G VK7G 94522 STEREOSKOP 4235 4481 94522 STE-REOSKOP 4235 4481"	CW		(CK)
14373	S06s	3-5-2011	0800	352 479 6 98740 54262 37554 29398 24532 63692	AM		(HS2)
14373	S06s	10-5-2011	0800	352 479 6 98740	AM		(FN)
14451	M32	18-5-2011	1733	RIT DE RJP70 ZZD	CW		(PPA)
14460	E06	19-5-2011	0500	460-275/131=82626	AM	Thu	(HFD)
14535	S06s	19-5-2011	1210	425	AM	Wed	(HFD)
14535	S06s	26-5-2011	1210	425 916 7 45410 56479 55954 62387 45543 73765 74153 916 7 00000	AM		(Danix)
14535.0	S06s	26-5-2011	1210	Fair signal. 425 916 7 45410 56479 55954 62387 45543 73765 74153 916 7 00000	USB	Thu	(Spec)
14580	S06s	4-5-2011	1000	729	AM	Wed	(HFD)
14580	S06s	11-5-2011	1000	729 451 6 43943	AM		(FN)
14580.0	S06s	18-5-2011	1000	Strong. 725 810 5 55779 78543 34858 24086 56555 810 5 00000 End 1005z.	USB	Wed	(Spec)
14655	M42	4-5-2011	1801	Russian DOSC. Msg on link 14271	40bd CROWD36		(MCO)
14736	S06	20-5-2011	0930	842 179 32 42501 04550 77623	AM		(HS2)
14753	E11	10-5-2011	0710	633/00	USB		(HS2)
14812	E07	2-5-2011	1900	845 845 845 00000	AM		(Danix)
14812	E07	2-5-2011	1900	845:0	AM	Mon	(HFD)

14812	E07	4-5-2011	1902	OM/EE repeats 845 000	AM		(MCO)
14812	E07	9-5-2011	1900	845 845 845 000	AM		(FN)
14812	E07	9-5-2011	1900	845 000	AM		(HS2)
14812	E07	11-5-2011	1900	845 845 845 000	AM		(FN)
14812	E07	25-5-2011	1900	845 000	AM		(Danix)
14812	X06	17-5-2011	0917	Mazielka. Sequence: 246531	AM		(MUK)
14812.0	E07	2-5-2011	1900	Very weak signal. 845 845 845 000 End 1903z.	USB	Mon	(Spec)
14812.0	E07	4-5-2011	1900	Strong signal. 845 845 845 000 End 1902z.	USB	Wed	(Spec)
14812.0	E07	9-5-2011	1900	Strong. 845 845 845 000 End 1902z.	USB	Mon	(Spec)
14812.0	E07	18-5-2011	1900	Very weak. 845 845 845 000 End 1902z.	USB	Wed	(Spec)
14812.0	E07	25-5-2011	1900	Null	AM	Wed	(Pres)
14812.0	E07	25-5-2011	1900	Weak signal. 845 845 845 000 End 1903z.	USB	Wed	(Spec)
14812.0	E07	30-5-2011	1900	Fair signal. 845 845 845 000 End 1903z.	USB	Mon	(Spec)
14861	X06	10-5-2011	0838	Mazielka. Sequence: 542136	AM		(HS2)
14896	X06	7-5-2011	1118	Mazielka	AM		(EW)
15230	S06s	10-5-2011	0610	438 971 5 35084	AM		(FN)
15230	S06s	10-5-2011	0610	438 971 5 65384 86148 55754 87822 72284	AM		(HS2)
15230	S06s	24-5-2011	0610	438	AM	Tue	(HFD)
15230.0	S06s	31-5-2011	0610	438 00000	USB	Tue	(E800)
16020	S06s	4-5-2011	1010	729	AM	Wed	(HFD)
16020	S06s	11-5-2011	1010	729 451 6 43943	AM		(FN)
16020.0	S06s	18-5-2011	1010	Fair. 725 810 5 55779 78543 34858 24086 56555 810 5 00000 End 1015z.	USB	Wed	(Spec)
16170	E06	19-5-2011	0600	460	AM	Thu	(HFD)
16320	X06	20-5-2011	0636	Mazielka. Sequence: 241563	AM		
16331.7	MX	12-5-2011	1638	Beacon "D" Sevastopol	CW		(AB-HK)
16332	MX	12-5-2011	1638	Beacon "C" Moscow	CW		(AB-HK)
16332.1	MX	5-5-2011	1637	Beacon "A" Astrakhan	CW		(AB)
16332.2	MX	3-5-2011	0223	Beacon "F" Vladivostok	CW	Tue	(TI)
16332.2	MX	12-5-2011	1638	Beacon "F" Vladivostok	CW		(AB-HK)
16332.4	MX	12-5-2011	1638	Beacon "M" Magadan	CW		(AB-HK)
16335	E11	9-5-2011	1540	225/33 A ????? 28159....	USB		(HS2)
16335	E11	23-5-2011	1540	228/00	USB	Mon	(HFD)
16335	E11	30-5-2011	1540	228/00	USB		(Danix)
16735	S06s	10-5-2011	0600	438 971 5 35084	AM		(FN)
16735	S06s	10-5-2011	0600	438 971 5 65384 86148 55754 87822 72284	AM		(HS2)
16735	S06s	24-5-2011	0600	438	AM	Tue	(HFD)
16780	E17z	12-5-2011	0800	674-290/5=23546	USB	Thu	(HFD)
16780.0	E17z	5-5-2011	0800	Fair. 674 390 5 33546 37745 56654 93785 63655 390 5 00000 End 0805z.	USB	Thu	(Spec)
16780.0	E17z	19-5-2011	0800	Weak. 674 892 5 95085 18218 75354 83567 28336 892 5 00000 End 0805z.	USB	Thu	(Spec)
16780.0	E17z	26-5-2011	0800	Fair signal. 674 892 5 95085 18218 75354 83567 28336 892 5 00000 End 0805z.	USB	Thu	(Spec)
17425	M32	17-5-2011	1734	RGR35 DE RIT QYT4 QSX 18952 OK?	CW		(PPA)
18726	M42	4-5-2011	1805	Russian Gov/Intel.	Baudot 50bd/500Hz FSK		(MCO)

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